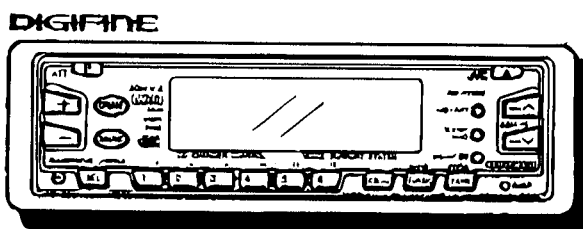
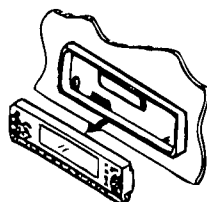


JVC

SERVICE MANUAL

CASSETTE RECEIVER

KS-RT626 U



Cassette Mechanism
CDS-522NJ

SYSTEM CPU
LC72366

HEAD AMP
CXA2510AG

PLAYBACK HEAD
1-0522-7003S

Area Suffix

U -----Other Areas

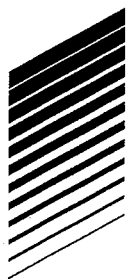
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Safety Precaution

 **CAUTION** Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs when performing repairs of this system.

Instructions

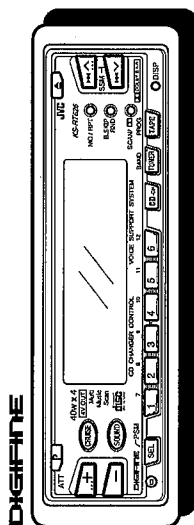
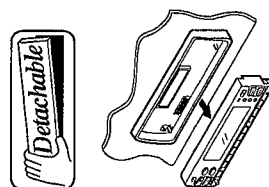


JVC



KS-RT626

راديو مع مشغل اشرطة كاسيت



لعمليات التركيب والتوصيلات، يرجى مراجعة كتيب التعليمات المتصل.

دليل التعليمات



Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

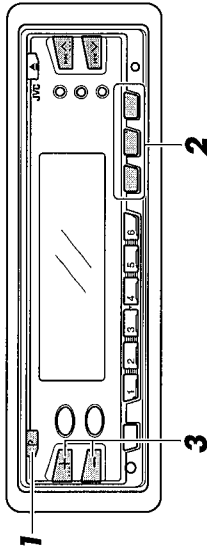
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BASIC OPERATIONS

ENGLISH



Note:
When you use this unit for the first time, set the built-in clock correctly, see page 15.

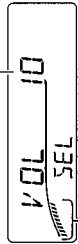
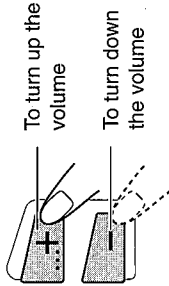
1 ATT
Turn on the power.

Note on One-Touch Operation:
When you select a source in step 2 below, the power automatically comes on. You do not have to press this button to turn on the power.

2 Select the source.
To operate the tuner, see pages 4 – 7.
To operate the tape deck, see pages 8 – 11.
To operate the CD changer, see pages 22 – 24.



3 Adjust the volume.
Volume level appears.



Volume setting level (see page 16.)

4 Adjust the sound as you want (see pages 12 – 14).

To drop the volume in a moment

Press ATT P briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.

To resume the previous volume level, press the button briefly again.

To turn off the power

Press ATT P for more than 1 second.

BEFORE USE

* For safety...

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

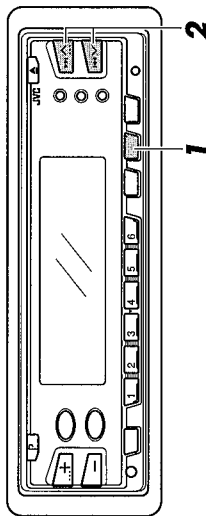
* Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.



RADIO OPERATIONS

Listening to the radio

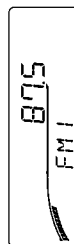


1

Select the band (FM1, FM2, FM3 or AM).

You can select any one of FM1, FM2, and FM3 to listen to an FM station.

→ FM1 → FM2 → FM3 → AM

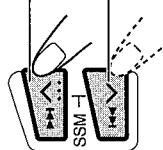


2

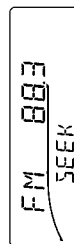
Start searching a station.

When a station is received, searching stops.

To search stations of higher frequencies.



To search stations of lower frequencies.



To stop searching before a station is received, press the same button you have pressed for searching.

To tune in a particular frequency manually:

- 1 Press TUNER/BAND repeatedly to select the band (FM or AM).
- 2 Press and hold SSM ▲ or SSM ▼ until "MANU" starts flashing on the display. Now you can manually change the frequency while "MANU" is flashing.
- 3 Press SSM ▲ or SSM ▼ repeatedly until the frequency you want is reached.
 - If you hold down the button, the frequency keeps changing (in 50 kHz intervals for FM and 9 kHz intervals for AM) until you release the button.

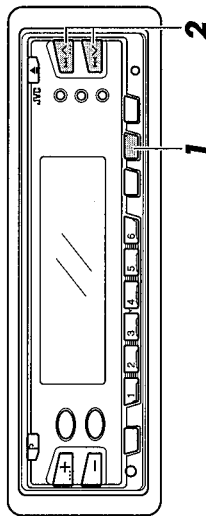
Storing stations in memory

You can use one of the following two methods to store broadcasting stations in memory.

- Automatic preset of FM stations: SSM (Strong-station Sequential Memory)
- Manual preset of both FM and AM stations

FM station automatic preset: SSM

You can preset 6 local FM stations in each FM band (FM1, FM2, and FM3).



1

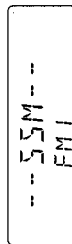
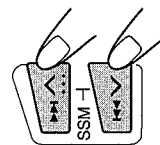
Select the FM band number (FM1, FM2 or FM3) you want to store FM stations into.

→ FM1 → FM2 → FM3 → AM



2

Press and hold the both buttons for more than 3 seconds.



"SSM" appears, then disappears when automatic preset is over.

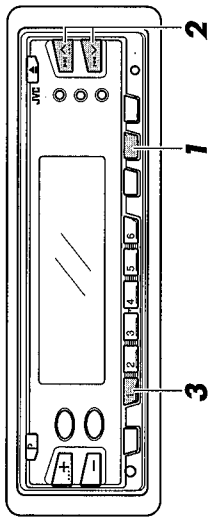
Local FM stations with the strongest signals are searched and stored automatically in the band number you have selected (FM1, FM2 or FM3). These stations are preset in the number buttons — No. 1 (lowest frequency) to No. 6 (highest frequency). When automatic preset is over, the station stored in number button 1 will be automatically tuned in.



Manual preset

You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) manually.

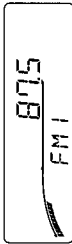
EXAMPLE: Storing an FM station of 88.3 MHz into the preset number 1 of the FM1 band



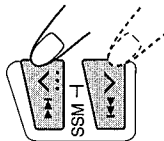
1



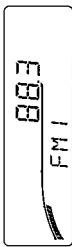
Select the FM1 band.



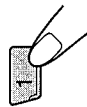
2



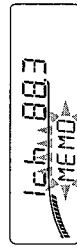
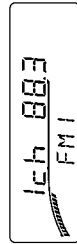
Tune into a station of 88.3 MHz.
See page 4 to tune into a station.



3



Press and hold the button for more than 2 seconds.



"MEMO" flashes for a while.

4

Repeat the above procedure to store other stations into other preset numbers.

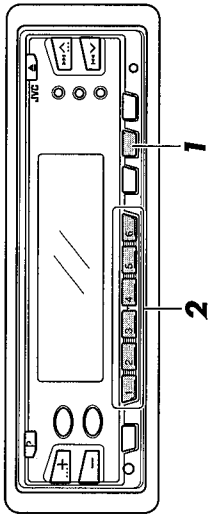
Notes:

- A previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.



Tuning into a preset station

You can easily tune into a preset station. Remember that you must store stations first. If you have not stored them yet, see pages 5 and 6.

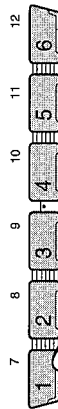


1



Select the band (FM1, FM2, FM3 or AM) you want.
→ FM1 → FM2 → FM3 → AM

2



Select the number (1 – 6) for the preset station you want.

Other convenient tuner functions

Scanning broadcast stations

When you press SCAN/ while listening to the radio, station scanning starts. Each time a broadcast is tuned in, scanning stops for about 5 seconds (tuned frequency number flashes on the display), and you can check what program is now being broadcast.

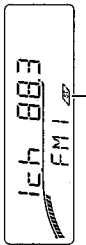
If you want to listen to that program, press the same button again to stop scanning.



Selecting FM reception sound

When an FM stereo broadcast is hard to receive:

Press MO/RPT (Mono/Repeat) while listening to an FM stereo broadcast. The sound you hear becomes monaural but reception will be improved.

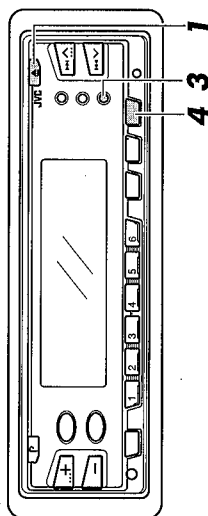


Lights up when receiving an FM broadcast in stereo.

To restore the stereo effect, press the same button again.

TAPE OPERATIONS

Listening to a tape

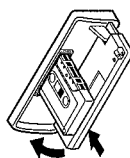


1



Open the control panel.

2



Insert a cassette, and close the control panel.
The unit turns on and tape play starts automatically.
When one side of the tape reaches its end during play, the other side of the tape automatically starts playing. (Auto Reverse)

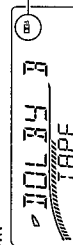
Note on One-Touch Operation:

When a cassette is already in the cassette compartment, pressing TAPE/PROG turns on the unit and starts tape play automatically.

3

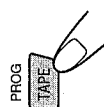


Turn on or off the Dolby B NR* as needed.
Each time you press the button, the Dolby B NR turns on and off.



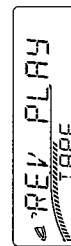
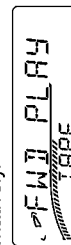
This indicator lights up when the Dolby B NR is turned on.

4



Select the tape direction.

Each time you press the button, the tape direction changes alternatively.



* Dolby Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

ENGLISH

To stop play and eject the cassette

Press .

Tape play stops and the cassette automatically ejects from the cassette compartment. If you change the source to AM/FM or CD changer, the tape play also stops (without ejecting the cassette this time).

- You can also eject the tape with the unit turned off.

To fast-forward and rewind a tape

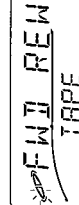
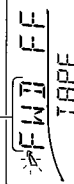
- Press SSM   for more than 1 second to fast-forward the tape.

When the tape reaches its end, the tape is reversed and playback starts from the beginning of the other side.

- Press SSM   for more than 1 second to rewind the tape.

When the tape reaches its end, playback of the same side starts.

Tape direction



To stop fast-forward and rewind at any position on the tape, press TAPE/PROG.
Tape play starts from that position on the tape.

Note:

While fast-forwarding or rewinding, this unit changes the source to the tuner, and you can listen to the last received station. (Tuner Call Play)
If you do not want to use Tuner Call Play, you can cancel this function. See page 17 for details.

About Automatic Tape Type Detection

With the Automatic Tape Type Detection mechanism provided for this unit, you can listen to type I, II and IV tapes without changing any settings.

To prohibit tape ejection

You can prohibit the tape ejection and can "lock" a tape in the cassette compartment.

Press and hold TAPE and ATT  for more than 2 seconds while playing a tape. "EJECT" flashes on the display for about 5 seconds, and the tape is "locked."

To cancel the prohibition and "unlock" the tape, press and hold TAPE and ATT  for more than 2 seconds again. "EJECT" flashes again for about 5 seconds, and this time the tape is "unlocked."

PROG

TAPE



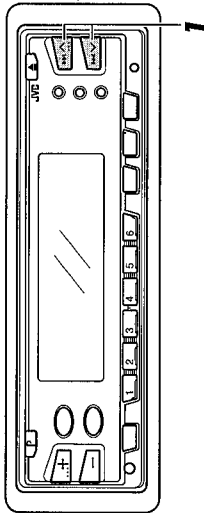
ATT



(at the same time)

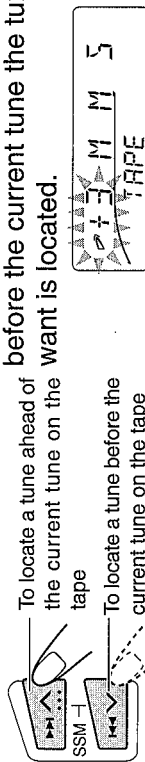
Finding the beginning of a tune

Multi Music Scan allows you to automatically start playback from the beginning of a specified tune. You can specify up to 9 tunes ahead or before the current tune.



1 During playback

Specify how many tunes ahead of or before the current tune the tune you want is located.



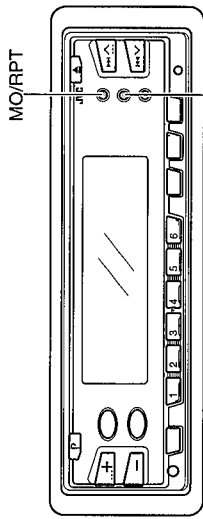
Each time you set the tune, the number changes up to ± 9 .

When the beginning of the specified tune is located, playback starts automatically.

Notes:

- While locating a specified tune:
 - If the tape is rewound to its beginning, playback starts from the beginning of that side.
 - If the tape is fast forwarded to the end, it is reversed and played from the beginning of the other side.
- In the following cases, Multi Music Scan may not operate correctly:
 - Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.
 - Tapes with short non-recorded sections.
 - Tapes with high level noise or humming between tunes.
 - The Dolby NR setting does not match. For example, if the tape is recorded with the Dolby C NR.

Other convenient tape functions



Skipping the blank portions on the tape

You can skip blank portions between the tunes. (Blank Skip)

Each time you press B.SKIP/RND (Blank Skip/Random) while playing a tape, the blank skip function turns on and off alternatively. When this function is on, the unit skips blank portions of 15 seconds or more, fast forwards to the next tune, then starts playing it.



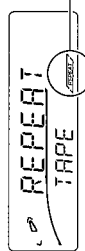
This indicator lights up when Blank Skip is in use.

- When the tape reaches its end while fast-forwarding, the tape direction will be changed automatically.

Playing the current tune repeatedly

You can play the current tune repeatedly. (Repeat Play)

Each time you press MO/RPT (Mono/Repeat) while playing a tape, Repeat Play turns on and off alternatively.



This indicator lights up when Repeat Play is in use.

Notes:

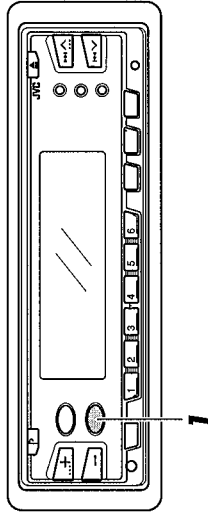
In the following cases, Blank Skip and Repeat Play may not operate correctly.

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.
- Tapes with short non-recorded sections.
- Tapes with high level noise or humming between tunes.
- The Dolby NR setting does not match. For example, if the tape is recorded with the Dolby C NR.

SOUND ADJUSTMENTS

Selecting preset sound modes

You can select a preset sound adjustment suitable to the music genre.



Select the sound mode you want.

Each time you press the button, the sound mode changes as follows.

SCM OFF → BEAT → SOFT → POP

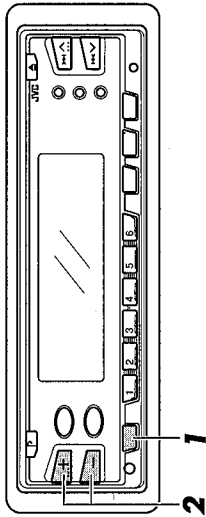
Indication	For:	Preset values		
		Bass	Treble	Loudness
SCM OFF	(Flat sound)	00	00	On
BEAT	Rock or disco music	+02	00	On
SOFT	Quiet background music	+01	-03	Off
POP	Light music	+04	+01	Off

Notes:

- You can adjust the preset sound mode to your preference, and store it in memory. If you want to adjust and store your original sound mode, see "Storing your own sound adjustments" on page 14.
- To adjust the bass and treble reinforcement levels or to turn on/off the loudness function temporarily, see "Adjusting the sound" on page 13.

Adjusting the sound

You can adjust the sound characteristics to your preference.



Select the item you want to adjust.

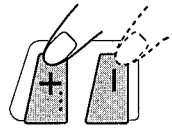
BAS → TRE → FAD
VOL → LOUD → BAL

Indication	To do:	Range
BAS (bass)	Adjust the bass	-06 (min.) — +06 (max.)
TRE (treble)	Adjust the treble	-06 (min.) — +06 (max.)
FAD (Fader)*	Adjust the front and rear speaker balance	R06 (rear only) — F06 (front only)
BAL (Balance)	Adjust the left and right speaker balance	L06 (left only) — R06 (right only)
LOUD (Loudness)	Turn on or off the loudness function**	ON — OFF
VOL (Volume)	Adjust the volume	00 (min.) — 50 (max.)

Note:

- * If you are using a two-speaker system, set the fader level to "00" (center).
- ** The loudness function can boost low and high frequencies to produce a well-balanced sound at low volume levels.

Adjust the level.



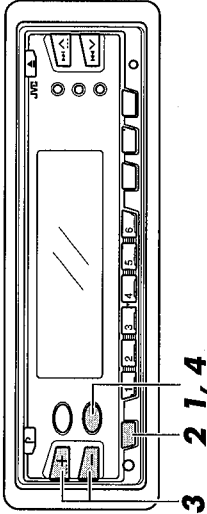
Note:

Normally the + and - buttons work as the volume control buttons. So you do not have to select "VOL" to adjust the volume level.



Storing your own sound adjustments

You can adjust the sound modes (BEAT, SOFT, POP: see page 12) to your preference and store your own adjustments in memory.



- 1** Call up the sound mode you want to adjust.
See page 12 for details.
- 2** Select "BAS (bass)," "TRE (treble)" or "LOUD (loudness)."
Within 5 seconds
- 3** Adjust the selected item.
See page 13 for details.
Within 5 seconds
- 4** Press and hold SOUND until "MEMO" appears and starts flashing on the display.
Your setting is stored in memory.
Within 5 seconds
- 5** Repeat the same procedure to store other settings.

To reset to the factory settings

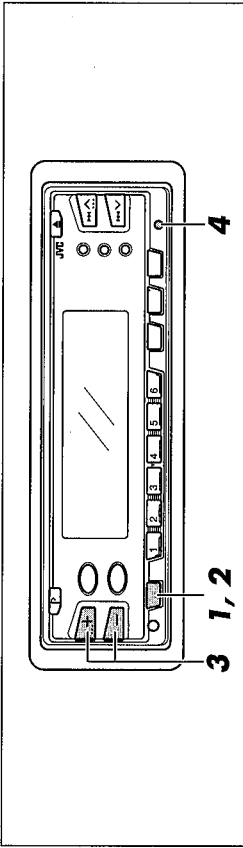
Repeat the same procedure and reassign the preset values listed in the table on page 12.

OTHER MAIN FUNCTIONS

Changing general settings (PSM)

You can change the following settings for this unit by using the PSM (Preferred Setting Mode) control.

- CLK ADJ: Adjusts the built-in clock (see below).
- LEVEL: Changes the level indicator mode on the display (see page 16).
- VOICE: Selects voice confirmation or key-touch tone (see page 16).
- DIMMER: Selects the dimmer mode (see page 17).
- TU CALL: Turning on/off Tuner Call Play (see page 17)



Setting the clock

After installation, set the built-in clock correctly.

- 1 Press PSM (SEL) for more than 2 seconds.
One of the PSM items appears on the display.
- 2 If "CLK ADJ" does not appear, press PSM (SEL) repeatedly until it appears.
Current setting appears.
- 3 Press - to adjust the hour.
Press + to adjust the minute.
- 4 Press DISP to start clock.



To check the current clock time (changing the display mode)

Press DISP repeatedly. Each time you press the button, the display mode changes as follows.

During tuner operation:	During tape operation:	During CD operation:
Frequency ← → Clock	Play mode ← → Clock	Elapsed playing time ← → Clock

- If the unit is not in use when you press DISP, the power turns on, the clock time is shown for 5 seconds, then the power turns off.



Changing the level indicator mode

When shipped from the factory, the level indicator on the display shows the volume setting. You can change it to show the following.

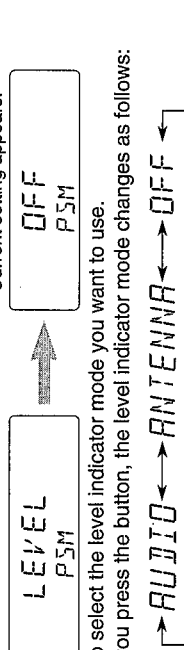
- AUDIO: Audio level indicator
- ANTENNA: Tuner sensitivity indicator
- OFF: Volume setting indicator

1 Press PSM (SEL) for more than 2 seconds.

One of the PSM items appears on the display.

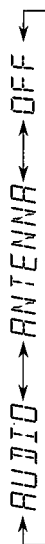
2 If "LEVEL" does not appear, press PSM (SEL) repeatedly until it appears.

Current setting appears.



3 Press +/- to select the level indicator mode you want to use.

Each time you press the button, the level indicator mode changes as follows:



Selecting voice confirmation or key-touch tone

Voice confirmation informs you what operation you have done by providing messages or cues in **English**.

When shipped from the factory, voice confirmation level 1 (VOICE 1) has been activated.

If you want to cancel this function or change it to the key-touch tone, follow the procedure below.

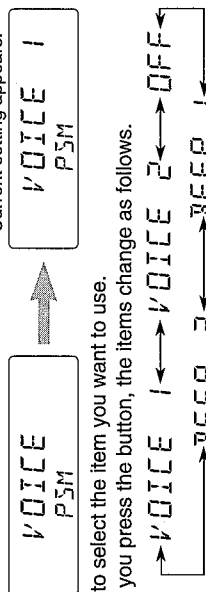
- VOICE 1: Voice confirmation level 1 (low volume)
- VOICE 2: Voice confirmation level 2 (high volume)
- BEEP 1: key-touch tone level 1 (low volume)
- BEEP 2: key-touch tone level 2 (high volume)
- OFF: No voice confirmation and key-touch tone

1 Press PSM (SEL) for more than 2 seconds.

One of the PSM items appears on the display.

2 If "VOICE" does not appear, press PSM (SEL) repeatedly until it appears.

Current setting appears.



3 Press +/- to select the item you want to use.

Each time you press the button, the items change as follows.

Notes:

- Voice confirmation or key-touch tone comes out of the front speakers only. If you have only rear speakers connected in your car, no voice confirmation and key-touch tone comes out.
- If you have connected an external amplifier, voice confirmation and key-touch tone sounds louder. In this case, adjust the volume control of the connected amplifier.



Selecting the dimmer mode

When you turn on the car head lights, the display automatically dims (Auto Dimmer). When shipped from the factory, Auto Dimmer function has been activated.

If you want to cancel this function, follow the procedure below and select "OFF."

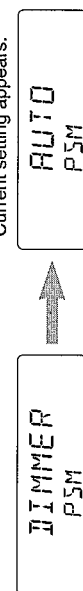
- AUTO: Activates Auto Dimmer
- OFF: Cancels Auto Dimmer

1 Press PSM (SEL) for more than 2 seconds.

One of the PSM items appears on the display.

2 If "DIMMER" does not appear, press PSM (SEL) repeatedly until it appears.

Current setting appears.



3 Press - to select "OFF" (or press + to select "AUTO" again).

Turning on/off Tuner Call Play

When you start fast forwarding or rewinding a tape, the source changes to the tuner temporarily and you can listen to the last received station. After fast-forwarding and rewind is stopped, tape play resumes automatically.

When shipped from the factory, Tuner Call Play has been activated.

If you want to cancel this function, follow the procedure below and select "OFF."

- ON: Activates Tuner Call Play
- OFF: Cancels Tuner Call Play

1 Press PSM (SEL) for more than 2 seconds.

One of the PSM items appears on the display.

2 If "TU CALL" does not appear, press PSM (SEL) repeatedly until it appears.

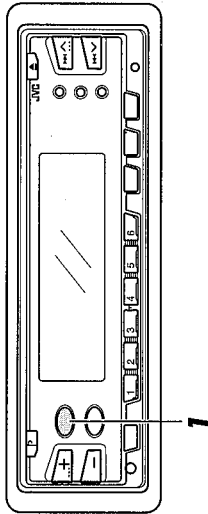
Current setting appears.



3 Press - to select "OFF" (or press + to select "ON" again).

Controlling the volume automatically

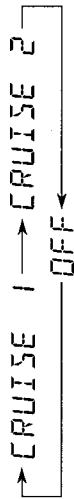
This unit change the volume level automatically (3 possible levels) based on the driving speed of your car by detecting the alternator's generating frequency (Audio Cruise). If you want to use this function, follow the procedures below. (When shipped from the factory, this mode is set to "OFF.")



1

Select the proper cruise mode for your car.

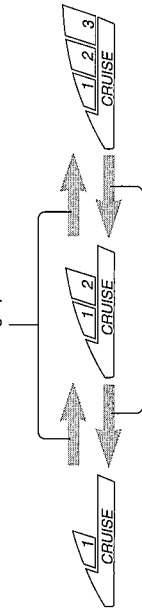
- Each time you press the button, the Audio Cruise mode changes as follows.



- CRUISE 1: Select this if your car is relatively quiet.
- CRUISE 2: Select this if your car is relatively loud.
- OFF: Cancels Audio Cruise.

When this function is turned on (the  indicator lights up on the display), the proper volume level is automatically selected among the 3 possible levels according to the driving speed, and the selected level is shown on the display.

When the driving speed is increased.



When the driving speed is decreased.

To adjust the volume increase rate

If you find Audio Cruise increase (or decrease) the volume either too much or too little as the driving speed changes. You can adjust the increase rate by changing the boost level. To change it, follow the procedure below

- 1 Press CRUISE to select either "CRUISE 1" or "CRUISE 2."
- 2 Press and hold CRUISE until the maximum boost level appears on the display.



Ex. When you have selected "CRUISE 2"

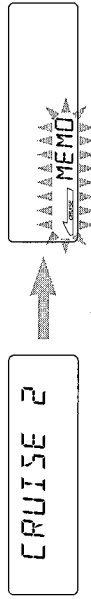
- 3 Press +/–, while the maximum boost level is shown on the display, to change the boost level (among 1 to 15) as you want
 - To increase the volume increase rate, press +.
 - To decrease the volume increase rate, press –.

If Audio Cruise does not function correctly

You may need to store the idling speed into memory to make Audio Cruise function correctly.

NOTICE that a number of factors, such as electric power steering, wipers, power windows, air conditioner, etc. do generate noises and, as a result, may cause Audio Cruise not to function correctly. If this is the main cause of malfunction, connect the memory backup lead (yellow lead) directly to the car battery to prevent these noises from affecting Audio Cruise.

- 1 Start the engine and let it warm up.
- 2 Press CRUISE to select either "CRUISE 1" or "CRUISE 2."
- 3 Press and hold CRUISE and SEL (PSM) for more than 2 seconds to store the idling speed into memory.



Ex. When you have selected "CRUISE 2"

When the setting is complete, the unit automatically checks to see if Audio Cruise functions correctly with this new idling setting. If it does not function correctly, Audio Cruise is canceled automatically and the idling setting becomes invalid.

- If this happens, see the NOTICE above.

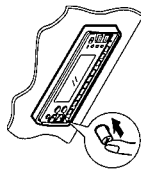
Detaching the control panel

You can detach the control panel when leaving the car. When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

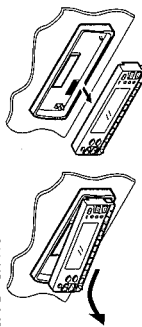
How to detach the control panel

Before detaching the control panel, be sure to turn off the power.

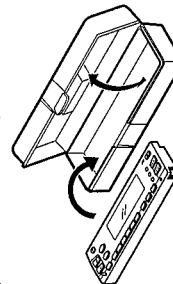
1 Unlock the control panel.



2 Pull the control panel out of the unit.

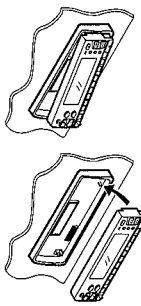


3 Put the detached control panel into the provided case.

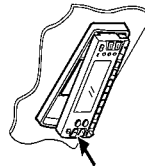


How to attach the control panel

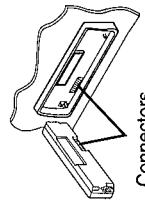
1 Insert the right side of the control panel into the groove on the panel holder.



2 Press the left side of the control panel to fix it to the panel holder.



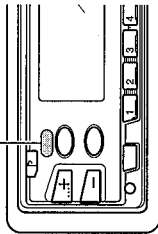
Note on cleaning the connectors:
If you frequently detach the control panel, the connectors will deteriorate. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

REMOTE OPERATIONS

Remote sensor

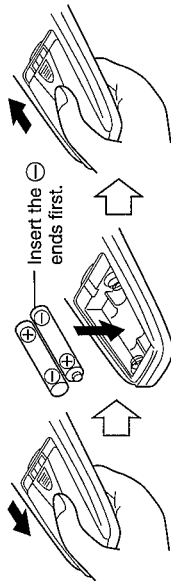


Before using the remote controller:

- Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.
- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

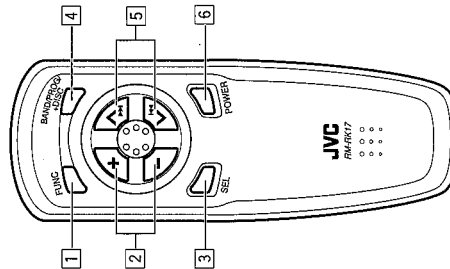
Installing the batteries

R03(UM-4)/AAA(24F)



When the controllable range or effectiveness of the remote controller decreases, replace the batteries – R03(UM-4)/AAA(24F).

Using the remote controller



- 1** Select the source.
Each time you press FUNC (function), the source changes.
- 2** Functions as the +/- buttons on the main unit.
• Does not function for the PSM adjustments.
- 3** Functions the same as the SEL button on the main unit.
• Does not function as the PSM button on the main unit.
- 4** Functions as the BAND button while listening to the radio.
Each time you press the button, the band changes.
• Functions as the PROG button while listening to a tape.
• Functions as the +DISC button while listening to the CD changer.
Each time you press the button, the disc number increases, and selected disc starts playing.
- 5** Functions as the station searching buttons while listening to the radio.
• Functions as the fast-forward or rewind buttons or Multi Music Scan buttons while listening to a tape.
- 6** Turns on or off the power.
• Functions as the fast-forward or reverse buttons or track selecting buttons while listening to the CD changer.

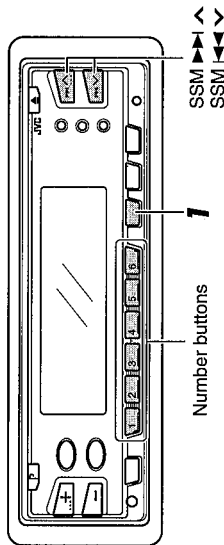
CD CHANGER OPERATIONS

We recommend that you use one of the CH-X series or KD-MK series with your KS-RT626. When connecting one of these CD automatic changer, refer to the separate manual. If you have another CD automatic changer, consult your JVC car audio dealer for connections.

Before operating your CD automatic changer:

- Refer also to the instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If "RESET 1 - RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection, connect the connecting cord(s) firmly if necessary, then press the reset button of the CD changer.

Playing CDs



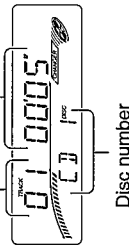
1

Select the CD automatic changer.

Play back starts from the first track of the first disc.
All tracks of all discs are played back.



Elapsed playing time
(The clock time is shown if you have pressed
Track number DISP to see the clock time. See page 15.)

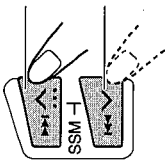


Note on One-Touch Operation:

When you press CD-CH, the power automatically comes on. You do not have to press ATT P to turn on the power.



To fast forward or reverse the track

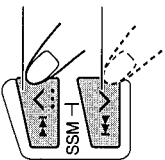


Press and hold SSM **FF** $\blacktriangleright\blacktriangleright$, while playing a CD, to fast forward the track.

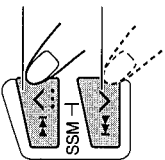


Press and hold SSM **REW** $\blacktriangleleft\blacktriangleleft$, while playing a CD, to reverse the track.

To go to the next track or the previous track

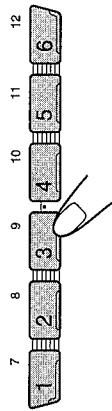


Press SSM **F** $\blacktriangleright$ briefly, while playing a CD, to go ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next track is located and played back.



Press SSM **B** $\blacktriangleleft$ briefly, while playing a CD, to go back to the beginning of the current track. Each time you press the button consecutively, the beginning of the previous track is located and played back.

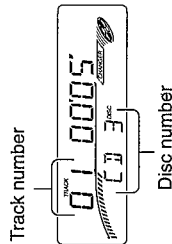
To go to a particular disc directly



Press the number button corresponding to the disc number to start its playback, while playing a CD.

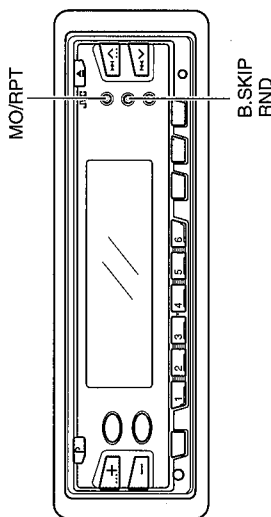
- To select a disc number from 1 - 6:
Press 1 (7) - 6 (12) briefly.
- To select a disc number from 7 - 12:
Press and hold 1 (7) - 6 (12) for more than 1 second.

Ex. When disc number 3 is selected



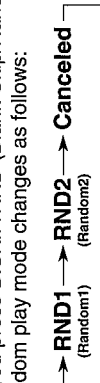


Selecting CD playback modes



To play back tracks at random (Random Play)

Each time you press B.SKIP/RND (Blank Skip/Random) while playing a CD, CD random play mode changes as follows:



Mode	RANDOM Indicator	Plays at random
RND1	Lights	All tracks of the current disc, then the tracks of the next disc, and so on.
RND2	Flashes	All tracks of all discs inserted in the magazine.

To play back tracks repeatedly (Repeat Play)

Each time you press MO/RPT (Mono/Repeat) while playing a CD, CD repeat play mode changes as follows:



Mode	REPEAT Indicator	Plays repeatedly
RPT1	Lights	The current track (or specified track).
RPT2	Flashes	All tracks of the current disc (or specified disc).

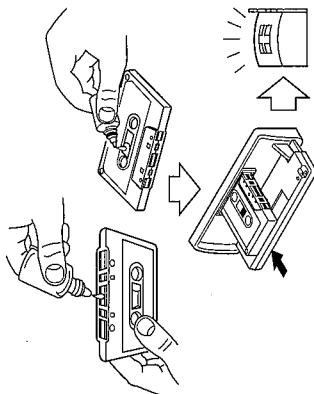
MAINTENANCE ?!

ENGLISH

To extend the lifetime of the unit

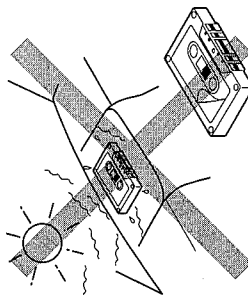
This unit requires very little attention, but you will be able to extend the life of the unit if you follow the instructions below.

To clean the heads



- Clean the heads after every 10 hours of use using a wet-type head cleaning tape (available at an audio store).
When the head becomes dirty, you may realize the following symptoms:
 - Sound quality is reduced.
 - Sound level decreases.
 - Sound drops out.
- Do not play dirty or dusty tapes.
- Do not touch the highly-polished head with any metallic or magnetic tools.

To keep the tape clean



- Always store the tapes to their storage cases after use.
- Do not store tapes in the following places:
 - Subject to direct sunlight
 - With high humidity
 - At extremely hot temperatures

CAUTIONS:

- Do not play the tapes with peeling labels; otherwise, they can damage the unit.
- Tighten tapes to remove slack since loose tape may become entangled with the mechanism.
- Do not leave a cassette in the cassette compartment after use, as the tape may become slack.

The function below is also provided to ensure the longer life of this unit.

Ignition key-off Release/Ignition key-on play

- When you turn off the ignition key with a cassette in the compartment, the unit automatically releases the tape from its head.
- When you turn on the ignition key with a cassette in the compartment, playback automatically starts.

TROUBLESHOOTING

What appears to be trouble is not always serious. Check the following points before calling a service center.

Symptoms	Causes	Remedies
• A cassette tape cannot be inserted.	You have tried to insert a cassette in the wrong way.	Insert the cassette with the exposed tape facing right.
• Cassette tapes become hot.	This is not a malfunction.	_____
• Tape sound is at very low level and sound quality is degraded.	The tape head is dirty.	Clean it with a head cleaning tape.
• Sound is sometimes interrupted.	Connections are not good.	Check the cords and connections.
• Sound cannot be heard from the speakers.	The volume control is turned to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
• SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.
• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
• "NO DISC" appears on the display.	No CD is in the magazine.	Insert CDs into the magazine.
	CDs are inserted incorrectly.	Insert them correctly.
• "RESET 8" appears on the display.	This unit is not connected to a CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
• "RESET 1-RESET 7" appears on the display.	_____	Press the reset button of the CD changer.
• The unit does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	While holding SEL, press ATT P for more than 2 seconds to reset the unit. (The clock setting and preset stations stored in memory are erased.)

SPECIFICATIONS

AUDIO AMPLIFIER SECTION

Maximum Power Output:
Front: 40 watts per channel
Rear: 40 watts per channel
Continuous Power Output (RMS):
Front: 16 watts per channel into 4 Ω , 40 to 20,000 Hz at no more than 0.8% total harmonic distortion.
Rear: 16 watts per channel into 4 Ω , 40 to 20,000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance: 4 Ω (4 to 8 Ω allowance)
Tone Control Range:
Bass: ± 10 dB at 100 Hz
Treble: ± 10 dB at 10 kHz
Frequency Response: 40 to 20,000 Hz
Signal-to-Noise Ratio: 70 dB
Line-Out Level/Impedance: 4.0 V/20 k Ω load (CD changer mode)

TUNER SECTION

Frequency Range:
FM: 87.5 to 108.0 MHz
AM: 531 to 1,602 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)
50 dB Quieting Sensitivity:
16.3 dBf (1.8 μ V/75 Ω)
Alternate Channel Selectivity (400 kHz):
65 dB

Frequency Response: 40 to 15,000 Hz
Stereo Separation: 35 dB
Capture Ratio: 1.5 dB

[AM Tuner]

Sensitivity: 20 μ V
Selectivity: 35 dB

CASSETTE DECK SECTION

Wow & Flutter: 0.11% (WRMS)
Fast-Wind Time: 100 sec. (C-60)
Frequency Response:
Metal/CrO₂ Tape: 30 to 18,000 Hz (± 3 dB)
Normal Tape: 30 to 16,000 Hz (± 3 dB)
Signal-to-Noise Ratio (Normal Tape):
Dolby NR ON: 60 dB
Dolby NR OFF: 54 dB
Stereo Separation: 40 dB

GENERAL

Power Requirement:
Operating Voltage: DC 14.4 volts (11 to 16 volts allowance)
Grounding System: Negative ground
Dimensions (W x H x D):
Installation Size: 182 x 52 x 150 mm (7-3/16" x 2-1/16" x 5-15/16")
Panel Size: 188 x 58 x 14 mm (7-7/16" x 2-5/16" x 5/8")
Mass: 1.4 kg (3.1 lbs) (excluding accessories)

Design and specifications subject to change without notice.

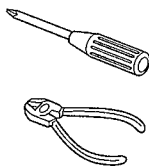
JVC KS-RT626

Installation/Connection Manual

安裝／連接手冊

كتيب تعليمات التركيب / التوصيل

VNN3766-T182S
[U]



Printed in Singapore
1297MNMMDWJES
EN, CH, AR

ENGLISH

- This unit is designed to operate only on 12 volts DC, NEGATIVE ground electrical systems.

INSTALLATION (IN-DASH MOUNTING)

- The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

中文

- 本機僅可使用直流12V、負極接地的電源系統。

安裝（裝設、固定在儀表板內）

- 下面的圖解表示了典型的安裝程序。然而，您應當做些適當的調整，以便適應您的汽車。如果您有問題，或需要有關配套元件的資料，請向JVC汽車音響分銷商或配套元件供應公司詢問。

عربي

- لقد صمم هذا الجهاز ليعمل فقط بواسطة تيار كهربائي مباشر DC، ١٢ فولت، أنظمة كهربائية تأريض سالب.

تركيب الجهاز (داخل-تابلو السيارة)

- يبين الرسم التوضيحي التالي طريقة التركيب المثالية. مع ذلك، يجب عليك عمل تعديلات تطابق نوع السيارة التي تمتلكها. إذا كان هناك استفسارات أو حاجة لمعلومات بخصوص أدوات التركيب، يرجى استشارة موزع الأجهزة الصوتية للسيارات ماركة JVC أو الشركة الموزعة لهذه الأدوات.

- Before mounting:** Press (Control Panel Release button) to detach the control panel.

- Remove the trim plate.

- Remove the sleeve after disengaging the sleeve locks.

- Stand the unit.

Note: When you stand the unit, be careful not to damage the fuse on the rear.

- Insert the 2 handles between the unit and the sleeve, as illustrated, to disengage the sleeve locks.

- Remove the sleeve.

Note: Be sure to keep the handles for future use after installing the unit.

- Install the sleeve in the dashboard.

* After the sleeve is correctly installed in the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as illustrated.

- Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.

- Do the required electrical connections explained on the back of this instructions.

- Slide the unit into the sleeve until it is locked.

- Attach the trim plate.

- Attach the control panel.

- 裝設之前：壓下控制面板解脫按鈕 ，拆脫控制面板。

- 取下裝飾框。

- 脫開鎖銷，取下本機的外套機殼。

- 將本機豎起。

注意：您豎起本機時，小心不要損壞底部的保險絲。

- 按圖所示，在本機和外套機殼之間插入兩片板條型的把手，脫開外套機殼鎖銷。

- 取下外套機殼。

注意：安裝完本機後，務必保存好兩片把手，以備將來使用。

- 將外套機殼裝入儀表板內。

* 在外套機殼準確地裝入儀表板之後，按圖所示，彎曲相應的突舌，把外套機殼牢固在儀表板內。

- 將緊固螺栓旋緊在本機機體上，並將橡膠防震墊套在緊固螺栓的尾部。

- 按本說明書後面所逐，進行所需要的電路連接。

- 將本機滑入外套機殼，直到鎖銷鎖住為止。

- 裝上裝飾框。

- 裝上控制面板。

- قبل بدء التركيب: اضغط الرز (زر تحرير لوحة التحكم) من أجل فصل لوحة التحكم.

- انزع لوحة الزينة.

- انزع الهيكل الواقي بعد فصل مثبتات الهيكل الواقي. اوقف الجهاز بشكل عمودي.

ملاحظة: عند توقيف الجهاز، تأكد من عدم تضرر أو إتلاف الفيوز الموجود في الجهة الخلفية من الجهاز.

- ادخل المساكنتين بين الجهاز والهيكل الواقي، كما هو مبين في الشكل، لفصل مثبتات الهيكل الواقي.

- انزع الهيكل الواقي.

ملاحظة: يرجى المحافظة على المساكات من أجل الاستعمال لاحقاً بعد تركيب الجهاز.

- ركب الهيكل الواقي داخل تابلو السيارة.

* بعد تركيب الهيكل الواقي كلياً داخل تابلو السيارة بشكل صحيح، أثنِ الألسنة بشكل مناسب لتثبيت الهيكل الواقي بشكل محكم في المكان الصحيح، كما هو مبين في الشكل.

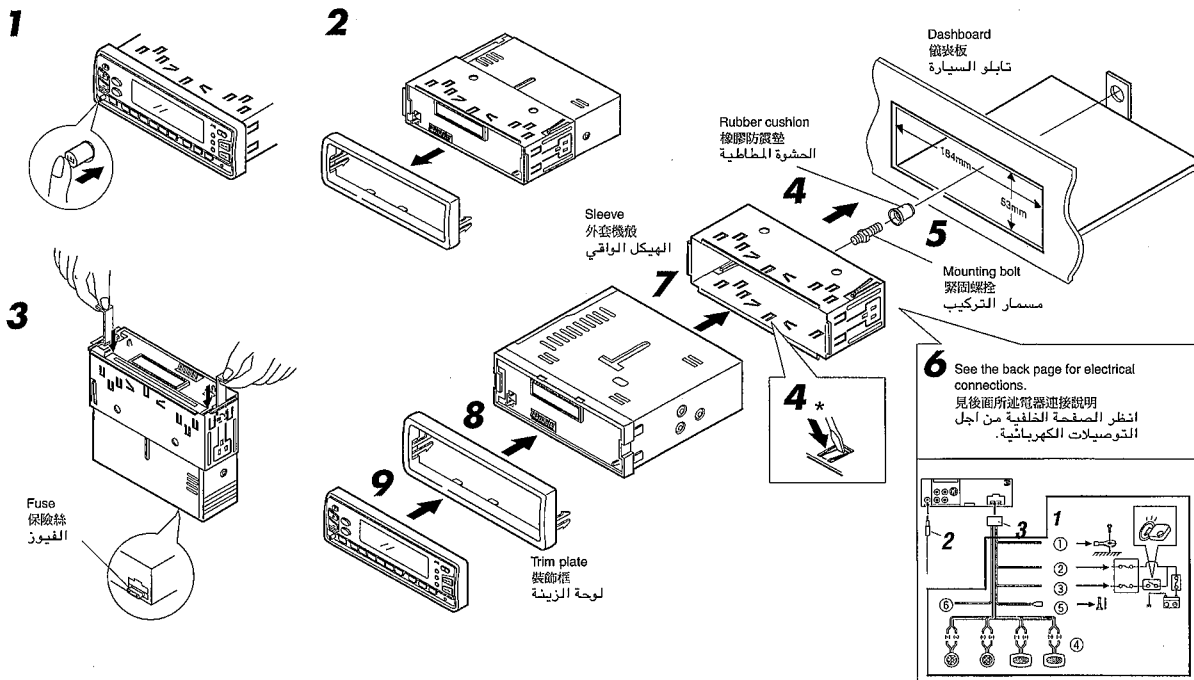
- ثبت مسمار التركيب بالجهة الخلفية من هيكل الجهاز وبعد ذلك ضع الحشوة المطاطية فوق نهاية المسمار.

- أعمل التوصيلات الكهربائية المطلوبة كما هو مشروح خلف هذه التعليمات.

- ادخل الجهاز داخل الهيكل الواقي حتى يثبت بشكل صحيح.

- ركب لوحة الزينة.

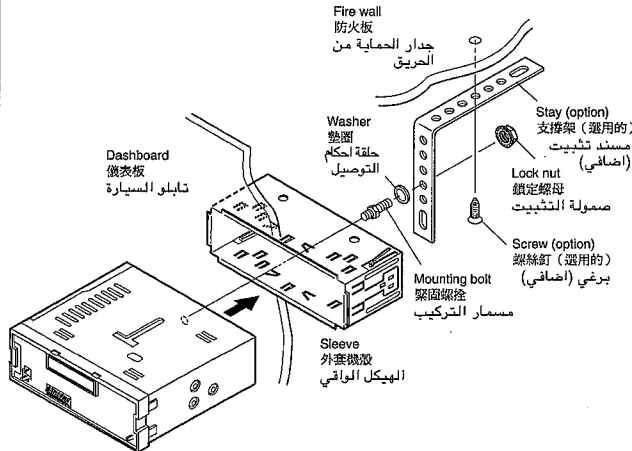
- ركب لوحة التحكم.



• When using the optional stay

• 若選用支撐架

• عند استخدام مسند اضافي للتثبيت



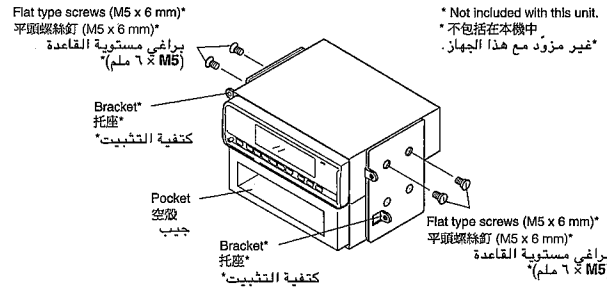
• When installing the unit without using the sleeve

• 若不使用外套機殼安裝本機

• عندما تركيب الجهاز بدون استخدام الهيكل الواقى

In a Toyota for example, first remove the car radio and install the unit in its place.

以丰田牌 (TOYOTA) 汽車為例：首先取出汽車收音機，然後將本機裝入其空出的位置。
على سبيل المثال، في سيارات نوع تويوتا، انزع راديو السيارة اولا بعد ذلك ركب الجهاز في مكانه.



Note: When installing the unit on the mounting bracket, make sure to use the 6 mm-long screws. If longer screws are used, they could damage the unit.

注意：把本機安裝在托座上時，務必使用6mm長的螺絲釘。如使用過長的螺絲釘，會損壞本機。

ملاحظة: عند تركيب الجهاز على كتفية التثبيت، تأكد من استخدام براغي طول 6 ملم. في حالة استخدام براغي أطول من 6 ملم، فإن ذلك يمكن أن يسبب تلف أو ضرر للجهاز.

Removing the unit

• Before removing the unit, release the rear section.

- 1 Remove the control panel.
- 2 Remove the trim plate.
- 3 Insert the 2 handles into the slots, as shown. Then, while gently pulling the handles away from each other, slide out the unit. (Be sure to keep the handles after installing it.)

拆卸本機

• 在拆卸本機前，應將本機後部的固定和連接部份鬆開。

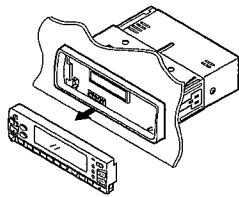
- 1 拆下控制面板。
- 2 取下裝飾板。
- 3 按圖所示，將兩片板條型把手插入卡槽，然後輕穩地從兩側向外拉兩片把手，本機隨之拉出。（安裝本機後，務必保存好兩片把手）

نزع الجهاز من تابلو السيارة

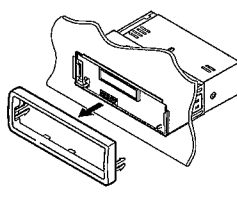
• قبل نزع الجهاز، حرر الجزء الخلفي.

- 1 انزع لوحة التحكم.
- 2 انزع لوحة الزينة.
- 3 ادخل المساكين داخل الشقوق، كما هو مبين في الشكل. بعد ذلك، اثناء سحب المساكين ببطءة بعيدا الواحدة عن الاخرى، اسحب الجهاز الى الخارج. (تأكد من احتفاظك بالمساكين بعد تركيب الجهاز)

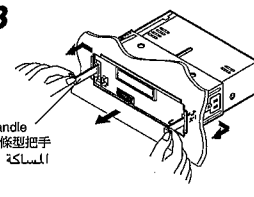
1



2

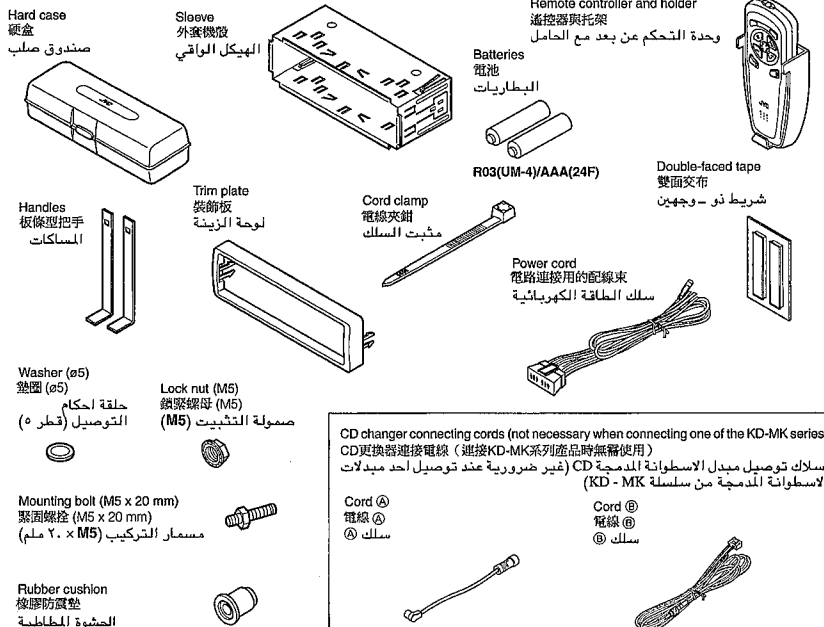


3



Parts list for installation and connection

The following parts are provided with this unit. After checking them, please set them correctly.



قائمة اجزاء التركيب والتوصيل

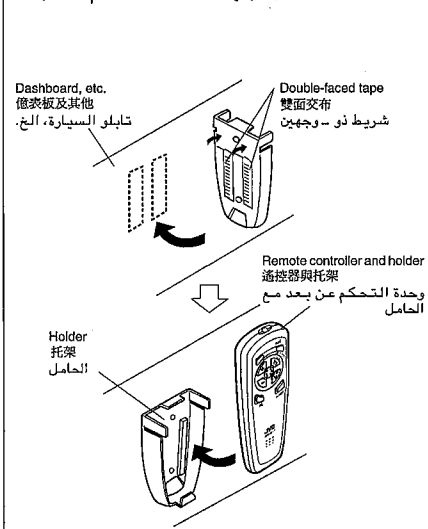
用於安裝和連接的零件表
下列零件是隨本機提供的。
請點以後，正確的將其裝配。

الاجزاء التالية مزودة مع الجهاز. بعد فحص هذه الاجزاء، يرجى تركيبها بشكل صحيح.

Installation: Remote Controller

裝置：遙控器

التركيب: وحدة التحكم عن بعد



- Before attaching the double-faced tape, wipe and clean the place where you plan to attach it.
- 在使用雙面膠布之前，請先將要粘貼的地方擦拭乾淨。
- قبل تركيب الشريط ذو الوجهين، امسح وتظف المكان الذي تريد ان تتركب عليه الشريط.

ENGLISH

ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. If you are not sure how to install this unit correctly, have it installed by a qualified technician.

Note:

This unit is designed to operate only on 12 volts DC, NEGATIVE ground electrical systems. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- If noise is a problem... This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's rear ground terminal (See connection diagram below.) to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC car audio dealer.
- Maximum input of the speakers should be more than 40 watts at the rear and 40 watts at the front, with an impedance of 4 to 8 ohms.
- Be sure to ground this unit to the car's chassis.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



中文

電路連接

為防止短路，建議在安裝本機之前，斷開電池的負極，並把所有電路都連接好。如果您不能確定如何正確地安裝本機，應請合格的技術人員來安裝。

注意：

- 本機僅可使用直流12V、負極接地的電源系統。如果您的車輛沒有這一電源系統，則需要一個電壓變換器，可以在JVC汽車音響分銷商處買到。
- 把保險絲更換為額定負荷值的保險絲。如果保險絲經常燒壞，請向JVC汽車音響分銷商詢問。
- 若出現噪音問題 本機在電源回路帶有一個噪音濾波器。但是，在某些車輛上，會出現喀喀聲或其他噪音。如果發生這類情況，將本機後面的接地端子用短而粗的導線，如編織銅線或標準電纜，連接到汽車底盤上（見下面的電路接線圖）。如果噪音仍然持續存在，請向JVC汽車音響分銷商詢問。
- 後置揚聲器的最大輸入功率應大於40瓦，前置揚聲器的最大功率40瓦，其阻抗的為4-8歐姆。
- 務必將本機接地到汽車底盤上。
- 本機使用後，散熱片會很熱。因此，在移出本機時，小心不要觸摸散熱片。

التوصيلات الكهربائية

لمنع حدوث قصير في الدوائر الكهربائية، نوصي بفصل طرف البطارية السالبة ثم عمل التوصيلات الكهربائية قبل تركيب الجهاز. في حالة عدم معرفتك بكيفية تركيب الجهاز بشكل صحيح، يرجى ترك عملية تركيب الجهاز لشخص مختص ومؤهل لتركيب مثل هذه الأجهزة.

ملاحظة:

- لقد صمم هذا الجهاز ليعمل فقط بواسطة تيار كهربائي مباشر DC، ١٢ فولت، أنظمة كهربائية تأريض سالب. في حالة عدم وجود مثل هذا النظام في سيارتك، يجب استخدام محول فولتا، ويمكن شراء هذا المحول من وكلاء الأجهزة الصوتية للسيارات ماركة JVC.
- استبدل الفيوز بأخر يحمل نفس القياسات الموصوفة. إذا تكرر احتراق الفيوز، يرجى استشارة وكلاء الأجهزة الصوتية للسيارات ماركة JVC.
- إذا كان الضجيج هو المشكلة... يستخدم هذا الجهاز فلتر ضجيج داخل دائرة الطاقة الكهربائية. مع ذلك، في بعض السيارات، يمكن أن يحدث نوع من الطقطقة أو الضجيج غير المرغوب. في حالة حدوث مثل ذلك، اوصل طرف التأريض الموجود في خلفية الجهاز (انظر رسم التوصيل في الأسفل) مع هيكل السيارة بواسطة استخدام أسلاك أقصر وأسمك، مثل سلك النحاس الجيد أو سلك مقاسي، في حالة عدم توقف الطقطقة أو الضجيج، يرجى استشارة وكلاء الأجهزة الصوتية للسيارات ماركة JVC.
- يجب أن يكون الحد الأقصى لدخل السماعات أكثر من ٤٠ واط للسماعات الخلفية و ٤٠ واط للسماعات الأمامية، مع متانة بين ٤ إلى ٨ أوم.
- تأكد من تأريض الجهاز مع هيكل السيارة.
- تصبح صفائح خفض الحرارة ساخنة جداً بعد الاستخدام. تأكد من عدم ملامستها عند نزع الجهاز.

A Typical Connections / 典型的接線方法 / التوصيلات النموذجية

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause a serious damage to this unit.

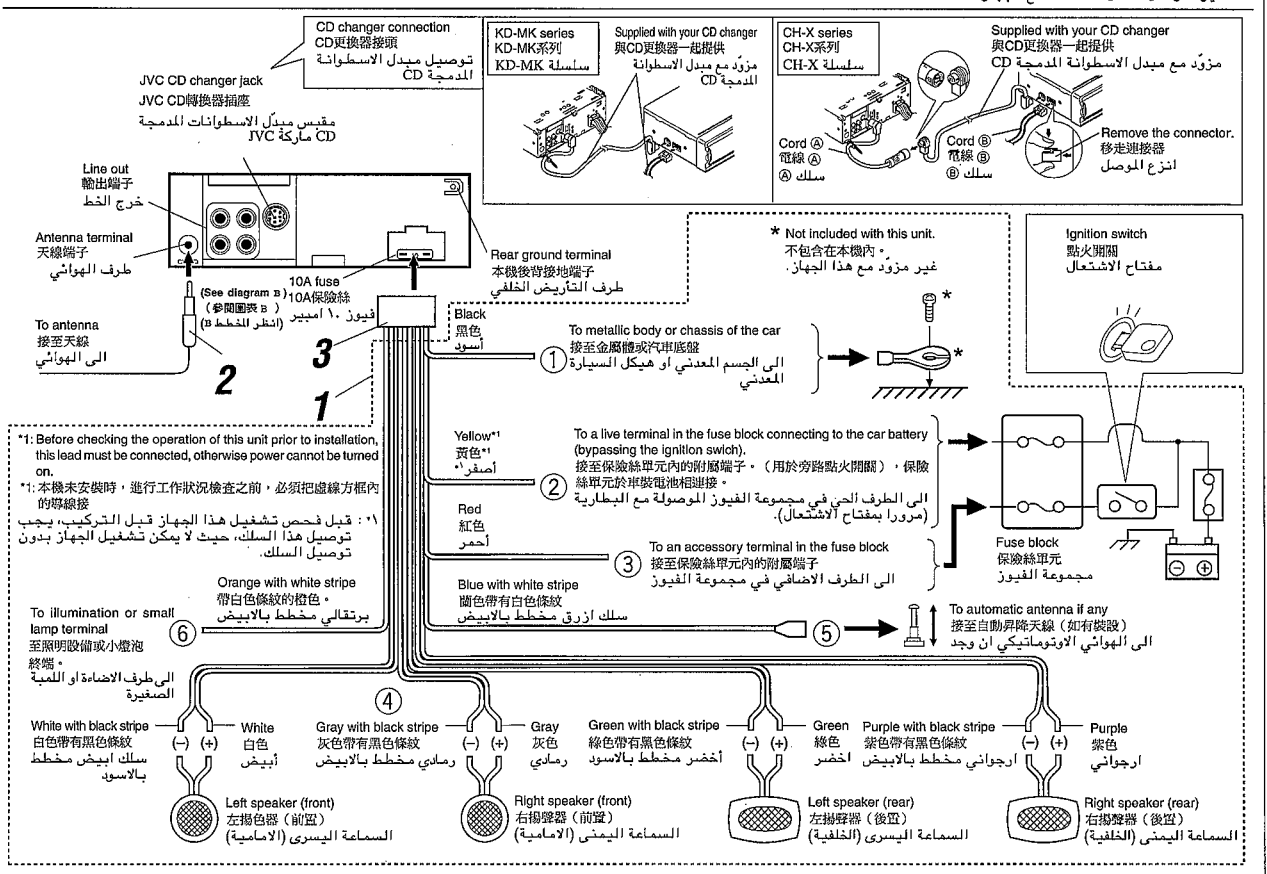
- 1 Connect the colored leads of the power cord to the car battery, speakers and automatic antenna (if any) in the following sequence:
 - ① Black: ground
 - ② Yellow: to car battery (constant 12V)
 - ③ Red: to an accessory terminal
 - ④ Others: to speakers
 - ⑤ Blue with white stripe: to automatic antenna
 - ⑥ Orange with white stripes: to illumination or small lamp terminal
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.

接線前：仔細檢查汽車內的線路。不正確的接線會導致本機嚴重損壞。

- 1 按下這順序將配線束各個不同色標的導線接頭分別接至電池、揚聲器和自動昇降天線（如有裝設）：
 - ① 黑色：接地
 - ② 黃色：接至車裝電池（恒定12V）
 - ③ 紅色：接至保險絲單元內的附屬端子
 - ④ 其他：接至揚聲器
 - ⑤ 藍色帶有白色條紋：接至自動昇降天線
 - ⑥ 帶白色條紋的橙色：接至照明設備或小燈泡終端。
- 2 將連接天線插頭的一端插入本機的天線端子。
- 3 最後，把配線束的插頭插接在本機上。

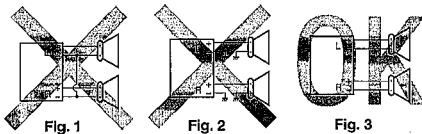
قبل البدء بالتوصيل: تأكد من شبكة الاسلاك في السيارة بدقة. يمكن أن يسبب التوصيل الخاطئ إلى حصول عطل حقيقي للجهاز.

- 1 اوصل الاسلاك الملونة لسلك تزويد الطاقة الكهربائية مع بطارية السيارة، السماعات والهوائي الأوتوماتيكي (إن وجد) حسب التسلسل التالي:
 - ① السلك الاسود: مع الأرض (مع هيكل السيارة)
 - ② السلك الاصفر: مع بطارية السيارة (ثابت ١٢ فولت)
 - ③ السلك الاحمر: مع الطرف الاضافي
 - ④ الاسلاك الاخرى: مع السماعات
 - ⑤ السلك الازرق المخطط بالابيض: مع الهوائي الأوتوماتيكي
 - ⑥ برتقالي مخطط بالابيض: إلى طرف الاضاءة أو اللب الصغيرة
- 2 اوصل سلك الهوائي.
- 3 أخيراً، اوصل حامل الاسلاك مع الجهاز.



PRECAUTIONS on power supply and speaker connections:

- DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.
- Connect the black lead (ground), yellow lead (to car battery, constant 12V), and red lead (to an accessory terminal) correctly.
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.
- If the speaker wiring in your car is as illustrated in Fig. 1 and Fig. 2 below, DO NOT connect the unit using that original speaker wiring. If you do, the unit will be seriously damaged. Redo the speaker wiring so that you can connect the unit to the speakers as illustrated in Fig. 3.
- If the speaker wiring in your car is as illustrated in Fig. 3, you can connect the unit using the original speaker wiring in your car.
- If you are not sure of the speaker wiring of your car, consult your car dealer.

**電源和揚聲器接線注意事項：**

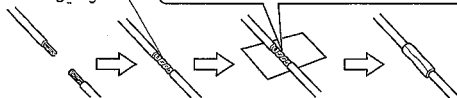
- 切勿把揚聲器導線接頭接至電池，否則本機將會嚴重損壞。
- 正確地連接黑色導線接頭（接地）、黃色導線接頭（接車裝電池，恆定12V）和紅色導線接頭（接至保險絲單元的附屬端子）。
- 在把揚聲器導線接頭接至揚聲器之前，檢查您汽車上的揚聲器線路：
- 如果您汽車上揚聲器線路圖1和圖2所示，不要使用原裝的揚聲器線路。如果使用，本機將會嚴重損壞。要重新連接揚聲器線路，可按圖3所示，把本機與揚聲器相連接。
- 如果您汽車上揚聲器線路圖3所示，可使用原裝的揚聲器線路與本機相連接。
- 如果您不能確定您汽車上揚聲器線路，請向您的汽車分銷商詢問。

تنبيهات حول تزويد الطاقة الكهربائية وتوصيل السماعات:

- لا توصّل اسلاك تزويد طاقة السماعات مع بطارية السيارة، لأن ذلك يبيد الى حصول ضرر للسماعات.
- ارصل السلك الاسود (الارضى)، والسلك الاصفر (مع بطارية السيارة، ثابت ١٢ فولت)، والسلك الاحمر (مع الطرف الاضافي) بشكل صحيح.
- قبل توصيل اسلاك تزويد طاقة السماعات مع السماعات، افحص شبكة اسلاك السماعات داخل سيارتك.
- إذا كانت شبكة اسلاك السماعات داخل سيارتك كما هي مبينة في الشكل ١ والشكل ٢ الموجودة في الأسفل، لا توصّل الجهاز بواسطة استخدام شبكة اسلاك السماعات الاصلية. إذا تم توصيل الجهاز بهذه الطريقة، سيؤدي ذلك الى حصول ضرر. أعد عمل شبكة اسلاك السماعات بحيث يمكنك توصيل الجهاز مع السماعات كما هو مبين في الشكل ٣.
- إذا كانت شبكة اسلاك السماعات داخل سيارتك كما هي مبينة في الشكل ٣، يمكنك توصيل الجهاز بواسطة استخدام شبكة اسلاك السماعات الاصلية داخل سيارتك.
- في حالة عدم معرفتك بشبكة اسلاك السماعات داخل سيارتك، استشر الوكيل أو ذوي الخبرة بهذا الخصوص.

Connecting the leads / 導線接頭的連接 / توصيل الاسلاك

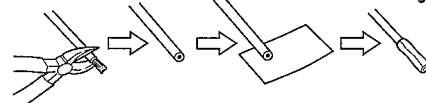
Twist the core wires when connecting.
連接前剝掉導線的外皮。



Solder the core wires to connect them securely.
將線芯牢固地焊接在一起。
وتمك بعد التوصيل.

CAUTION / 注意 / تنبيه

- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- 連接附加的其他音響設備。
- من أجل منع التقصير في الدوائر الكهربائية، ضع شريط عازل ولصق على أطراف الاسلاك غير المستعملة.

**B Connections Adding Other Equipment / 連接附加的其他音響設備 / توصيل الاجهزة الاخرى**

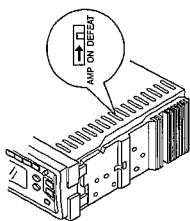
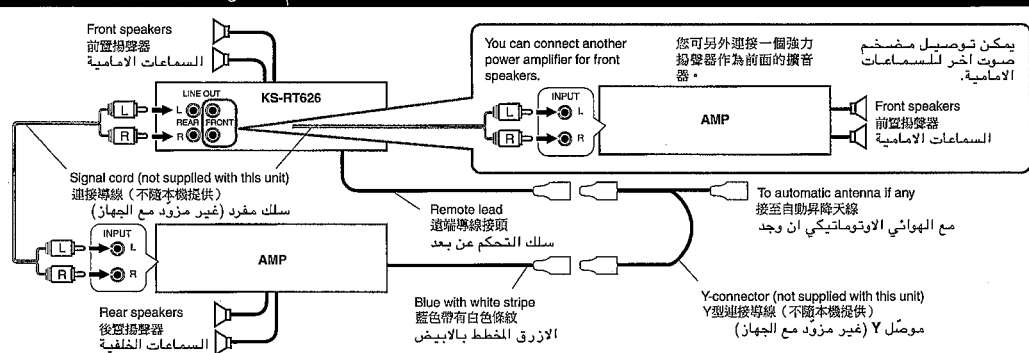
Since this unit has line-out terminals, an amplifier and other equipment can be used to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be supplied the power through this unit.
- For amplifier only.
- Connect this unit's line-out terminals to the amplifier's line-in terminals.
- Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused. (Cover the terminals of these unused leads with insulating tape, as illustrated above.)
- You can switch off the built-in amplifier and send the audio signals only to the external amplifier(s) to get clear sounds and to prevent internal heat buildup inside this unit. Set the DEFEAT switch on the bottom to "DEFEAT."

本機帶有多套輸出端子，可用一個功率放大器和其他音響設備來升級您汽車內的立體聲音響系統。

- 把遠端導線接頭（藍色帶有白色條紋）和遠端的其他音響設備的接頭連接，則可通過本機供電。
- 只供擴音機用：
- 將本機的輸出線接頭連接至擴音機的輸入線接頭。
- 將揚聲器和本機拆開，再連接至擴音機。請不要使用本機的揚聲器導線。（依下圖所示，用絕緣膠布將這些不用的導線接頭遮蔽起來。）
- 您可以將內裝的揚聲器斷掉，然後只將音訊訊號輸送給外部的揚聲器，以便取得更清晰的聲音，同時避免本機內部溫度逐漸升高。將底部的DEFEAT（無效）鍵鈕設為"DEFEAT"。

- يتملك هذا الجهاز أطراف خرج - خط، ويمكن استعمال مضخم صوت أو أجهزة أخرى لتحديث نظام الاستيريو هذا.
- اوصل سلك التحكم عن بعد (الازرق المخطط بالابيض) مع سلك التحكم عن بعد للجهاز الآخر بحيث يمكن تزويد الطاقة الكهربائية عبر هذا الجهاز.
- فقط لمضخم الصوت:
- اوصل أطراف خرج - الخط لهذا الجهاز مع أطراف دخل - الخط لمضخم الصوت.
- افصل السماعات من هذا الجهاز، ثم اوصل السماعات مع مضخم الصوت. اترك اسلاك سماعات هذا الجهاز بدون استعمال. (ضع شريط لاصق على أطراف الاسلاك غير المستعملة، كما هو موضح في الأعلى.)
- يمكن إيقاف تشغيل مضخم الصوت الداخلي وإرسال اشارات الصوت فقط لمضخم (مضخمات) الصوت الخارجي للحصول على أصوات واضحة ولتجنب تكون الحرارة الداخلية داخل هذا الجهاز. اضبط مفتاح DEFEAT الموجود في الأسفل على وضع إلغاء "DEFEAT".

**Amplifier / 功率放大器 / مضخم الصوت****TROUBLESHOOTING**

- The fuse blows.
- Are the red and black leads connected correctly?
- Power cannot be turned on.
- Is the yellow lead connected?
- No sound from the speakers.
- Is the speaker output lead short-circuited?
- Sound is distorted.
- Is the speaker output lead grounded?
- Are the "L" terminals of L and R speakers grounded in common?
- Unit becomes hot.
- Is the speaker output lead grounded?
- Are the "L" terminals of L and R speakers grounded in common?

故障排除

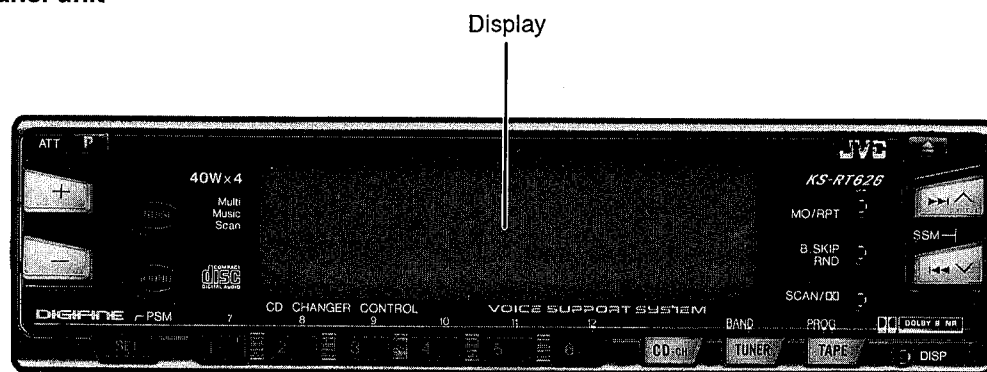
- 保險絲燒斷。
- 檢查紅色導線接頭和黑色導線接頭是否連接正確？
- 電源不能接通。
- 檢查黃色導線接頭是否接上？
- 揚聲器沒有聲音。
- 檢查揚聲器輸出導線接頭是否短路？
- 聲音失真。
- 檢查揚聲器輸出端子是否接地？
- 檢查揚聲器的左（L）、右（R）端子的負極（-）是否共同接地？
- 本機發熱。
- 檢查揚聲器輸出端子是否接地？
- 檢查揚聲器的左（L）、右（R）端子的負極（-）是否共同接地？

البحث عن الاعطال والاصلاح

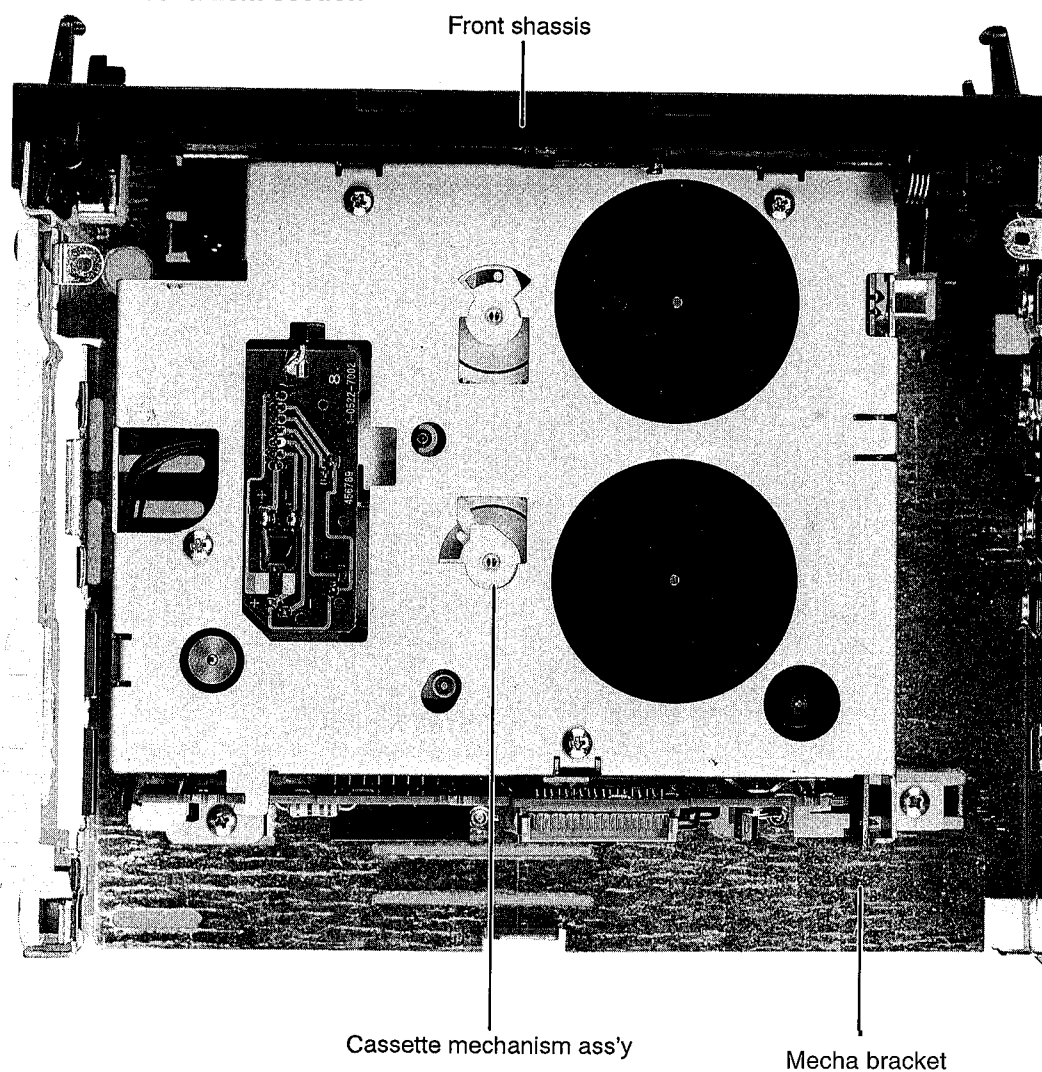
- يحترق الفيوز.
- هل السلك الاحمر والاسود موصولة بشكل صحيح؟
- لا يمكن توصيل الطاقة الكهربائية.
- هل السلك الاصفر موصول؟
- لا يصدر صوت من السماعات.
- هل هنالك تقصير في دائرة سلك خرج السماعة؟
- الصوت مشوه.
- هل سلك خرج السماعة موصول بالارض؟
- هل الأطراف السالبة "L" للسماعة اليسرى و "R" للسماعة اليمنى موصولة بالارض مع بعض؟
- يسخن الجهاز.
- هل سلك خرج السماعة موصول بالارض؟
- هل الأطراف السالبة "L" للسماعة اليسرى و "R" للسماعة اليمنى موصولة بالارض مع بعض؟

Location of main parts

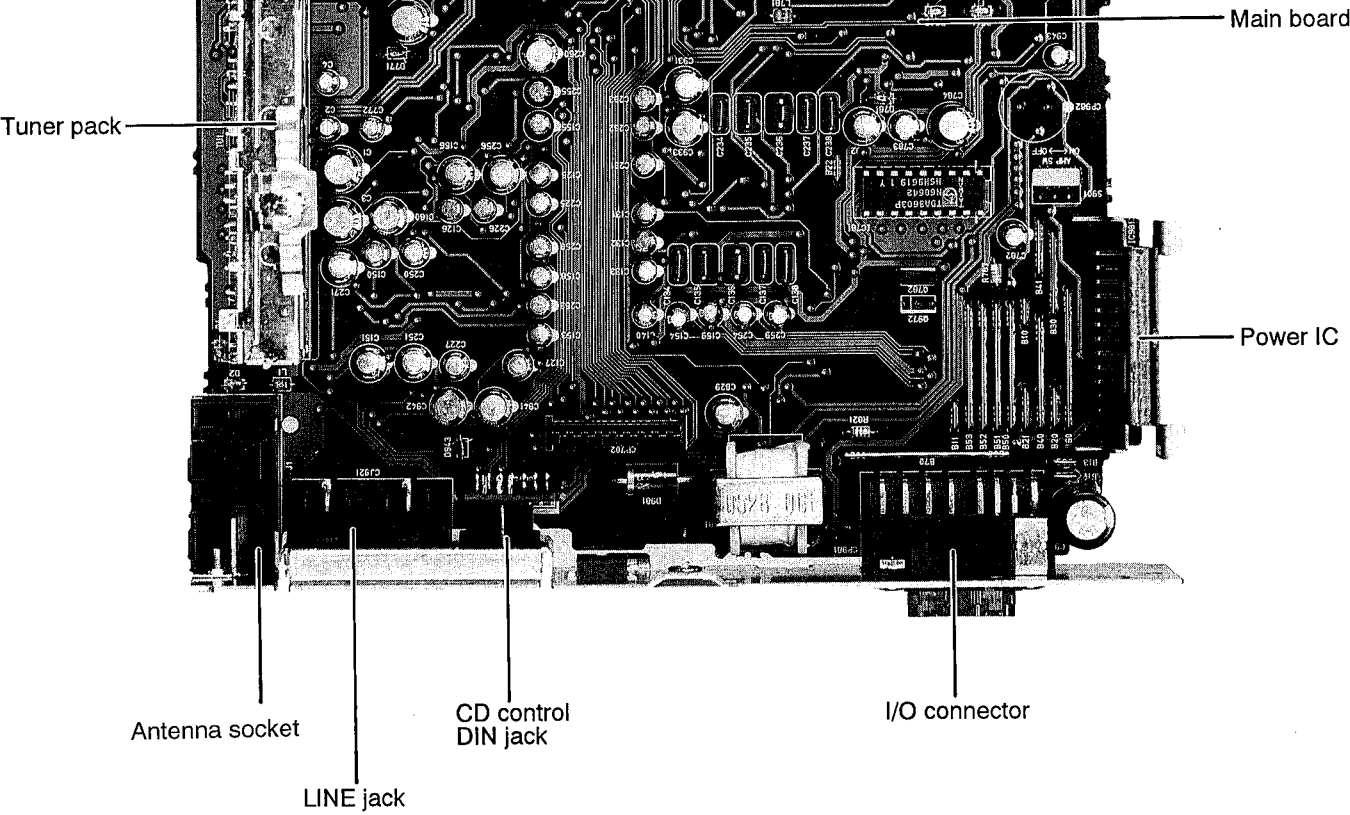
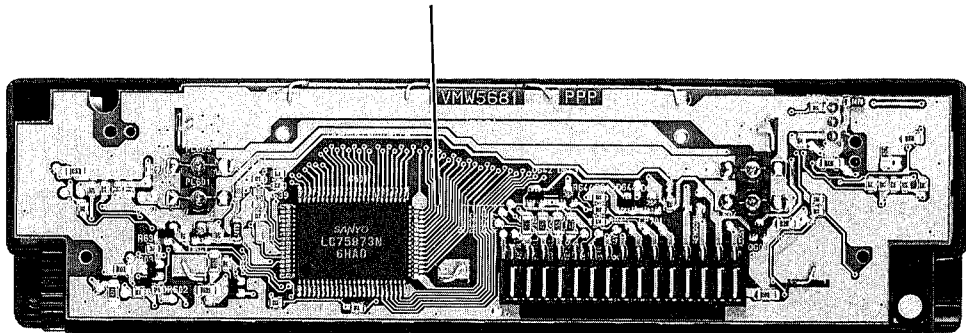
◆ Front panel unit



◆ Top chassis and mechanism section



LCD Driver & Operation switch board



Removal of Main Parts

《Enclosure sections》

■ Front panel unit (See Fig.2-1,2-2)

1. Press the Eject button to open the front panel unit
2. Push and open the right and left open/close shaft arms outward to remove the shaft.
3. Remove the front panel unit from the same side as the shaft was removed.

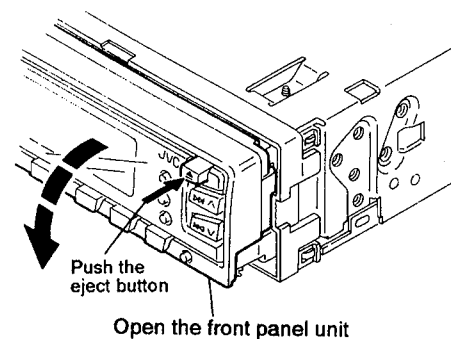


Fig. 2-1

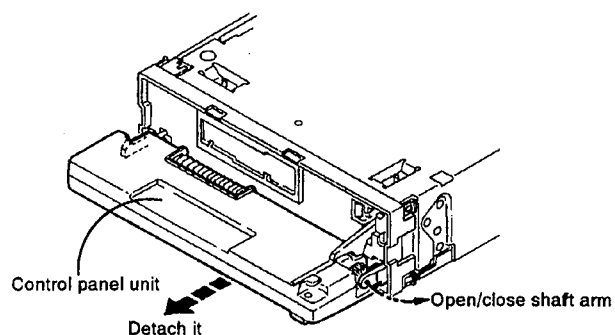


Fig. 2-2

■ Front chassis assembly (See Fig.2-3,2-4)

1. Remove the front panel unit.
2. Remove the four ribs ① securing the front chassis assembly to the chassis.
3. Remove the two screws ② securing the front chassis assembly.

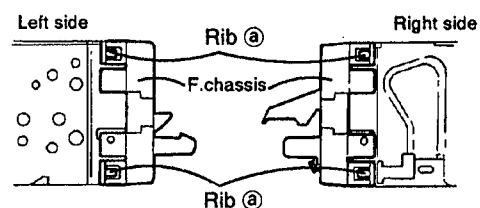


Fig. 2-3

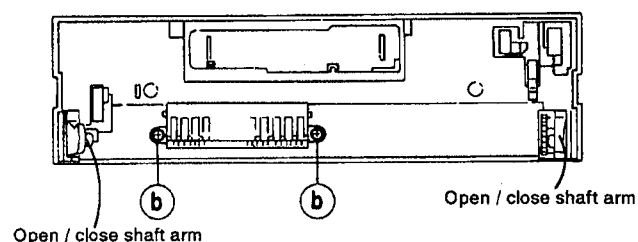


Fig. 2-4

■ Removing the bottom cover (See Fig.2-5)

Turn the unit upside down, then insert and turn the screwdriver to remove the bottom cover.

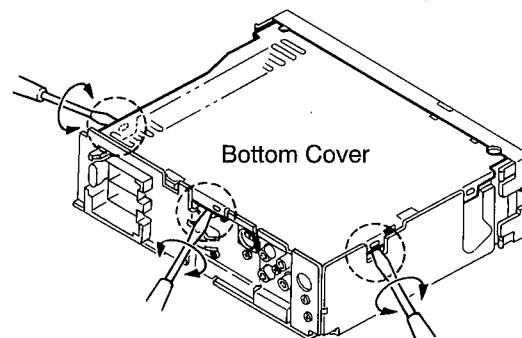


Fig.2-5

■ Removing the main board (with rear panel)

(See Fig.2-6~8)

- 1.Remove two screws ④ retaining the rear panel to the chassis
- 2.Remove one screw ② retaining the IC to the heat sink.
- 3.Remove two screws ③ retaining the main board.
- 4.Lift up the main board to remove it. At this time,disconnect the connector CP702 connecting the main board and Cassette mechanism.
- 5.Remove the two screws ① to remove the heat sink.

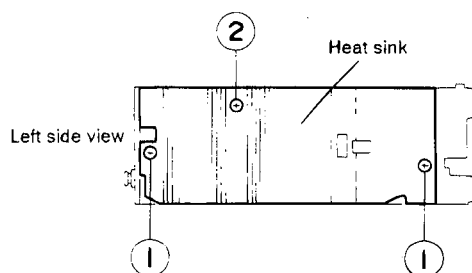


Fig.2-6

To connecting the head amplifier board

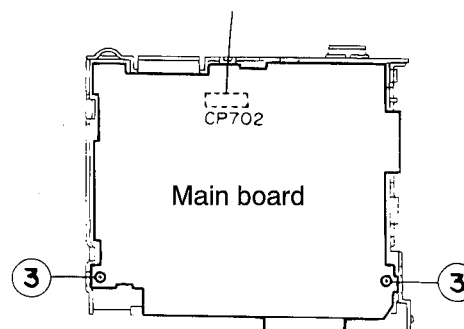


Fig.2-7

■ Removing the rear brackt (See Fig.2-8)

- 1.Remove two screws ⑤ to remove the connect terminal.
- 2.Remove one screw ⑥ to remove the line-out jack.
- 3.Remove one screw ⑦ to remove the antenna jack.
- 4.Remove one screw ⑧ to remove the changer connector jack.

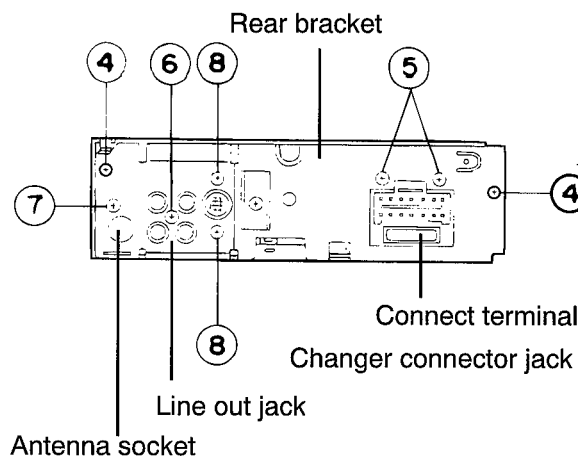


Fig.2-8

■ Cassette mechanism assembly (See Fig.2-9)

Remove four mechanism mounting screws ⑨ retaining the top cover.

■ Operation switchi board (See Fig.2-10)

1. Remove four screws ⑩ retaining the rear cover
2. Separate the front panel and Rear cover.
3. Take out the operation switch board.

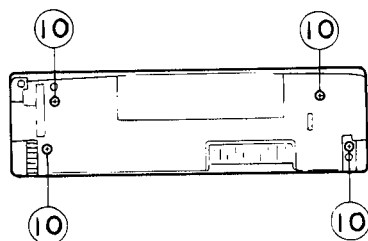


Fig.2-10

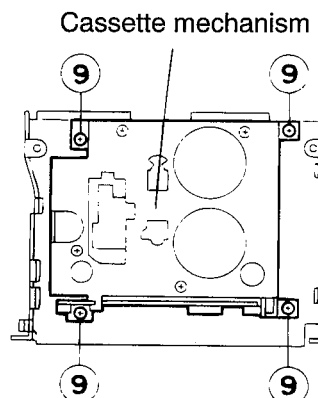


Fig.2-9

" Cassette Mechanism Sections "

■ Removing the Head Relay Board (See Fig. 1)

1. Resolder the lead wires of the loading motor at the two positions shown (RED,BLACK).
2. Resolder the lead wires of the head at the three positions shown (RED,YELLOW, BLACK).
3. Remove the three screws ① securing the head relay board.
4. Shift the interlocking section ④ securing the head relay board in the direction shown by the arrow "A" to remove the printed circuit board.

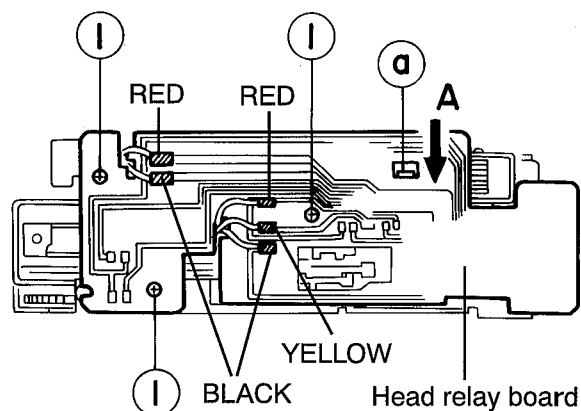


Fig. 1

■ Removing the Load Arm Assembly (See Fig. 2)

1. Using tweezers, detach the mylar washer ⑥ securing the load arm assembly and pull out the load arm assembly.

Note : When reassembling, be sure to use a new mylar washer.

2. Shift the load arm assembly counterclockwise.
3. Remove the load arm assembly from the catch(K).

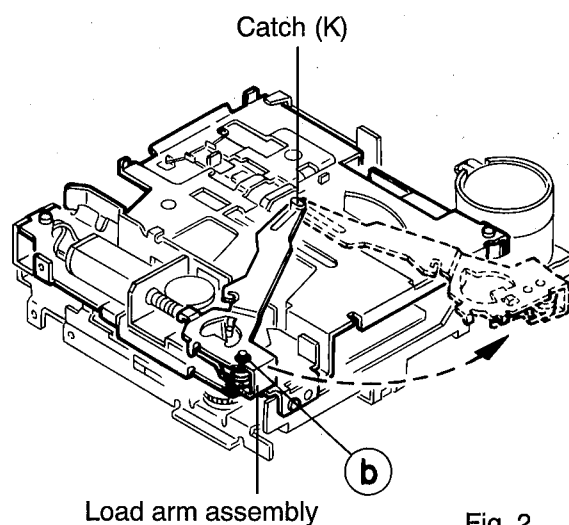


Fig. 2

■ Removing the Cassette Holder and Holder Arm Assembly (See Fig. 3)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Apply DC 6V to the lead wire of the loading motor assembly and turn the load gear assembly to the position shown in Fig. 3.
4. Remove the screw ② securing the cassette holder and holder arm assembly.
5. Shift the cassette holder and the holder arm assembly in the direction shown by the arrow "B" and remove them from the interlocking section ③ of the sub chassis assembly.

■ Removing the Sub Chassis Assembly (See Fig. 3)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Remove the cassette holder and holder arm assembly.
5. Remove the two screws (③ ④) securing the sub chassis assembly.

Note : When removing the sub chassis assembly, the mode gear may become detached. In this case, set it back to the original position.

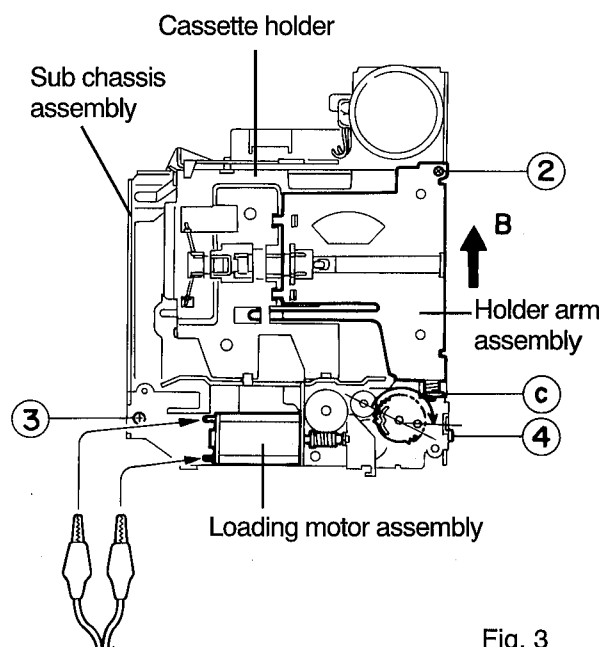


Fig. 3

■ Removing the Playback Head (See Fig. 4)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Removing the sub chassis assembly.
5. Disengage the spring holding the playback head down.
6. Remove the two screws ⑤ securing the playback head.

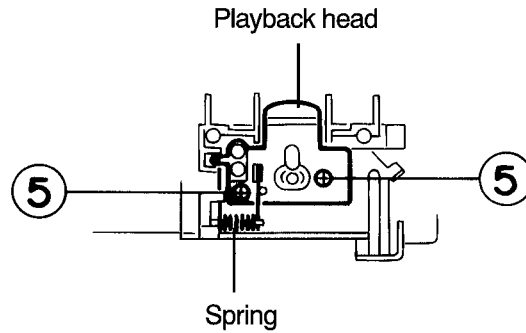


Fig. 4

■ Removing the Pinch Roller Assembly (See Fig. 5,6)

1. Removing the head relay board.
 2. Removing the load arm assembly.
 3. Removing the cassette holder and holder arm assembly.
 4. Removing the sub chassis assembly.
 5. Detach the mylar washers ④ at the two positions securing the right and left pinch roller assemblies.
- Note : When reassembling, be sure to use new mylar washers.
Also, make sure that grease is not adhering to the pinch rollers.
6. Pull out the pinch rollers.

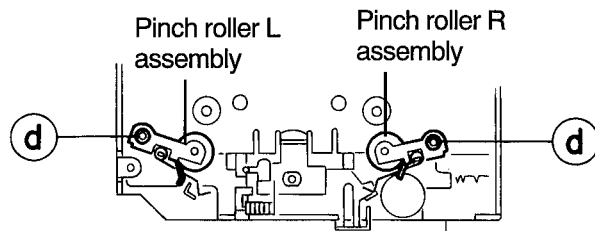


Fig. 5

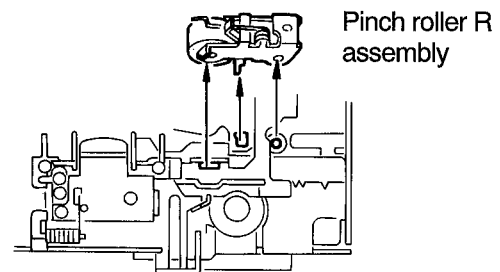


Fig. 6

■ Removing the Reel Disk Assembly (See Fig. 7)

1. Removing the head relay board.
 2. Removing the load arm assembly.
 3. Removing the cassette holder and holder arm assembly.
 4. Removing the sub chassis assembly.
 5. Detach the mylar washer ⑥ from the tip by first pressing down the reel driver to expose it.
- Note : When reassembling, be sure to use a new mylar washer.

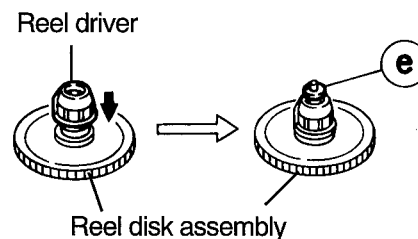


Fig. 7

■ Removing the Head Plate (See Fig. 8,9)

1. Removing the head relay board.
 2. Removing the load arm assembly.
 3. Removing the cassette holder and holder arm assembly.
 4. Removing the sub chassis assembly.
 5. Removing the left and right pinch roller assembly.
 6. From the rear of the head plate, detach the mylar washer (f) and washer pressing the forward/reverse plate down.
 7. Remove the two screws (6) fixing the metal detection lever and removal spring as shown in Fig. 8.
 8. Remove the head plate.
 9. Pull out the mode gear.
- Note : When installing the mode gear, set it to the arrow mark.

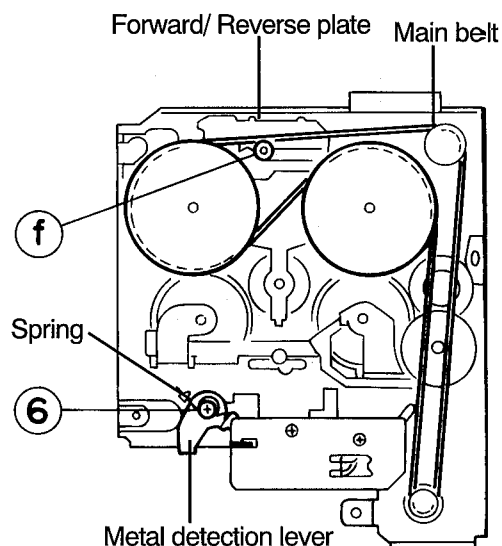


Fig. 8

■ Removing the Flywheel Assembly (See Fig. 9)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Removing the sub chassis assembly.
5. Removing the Head Plate.
6. Disengage the main belt from the flywheel assembly.
7. Remove the E.washer (g) at the two positions which secure the capstan shaft away from the surface.
8. Pull out the flywheel assembly from the rear.

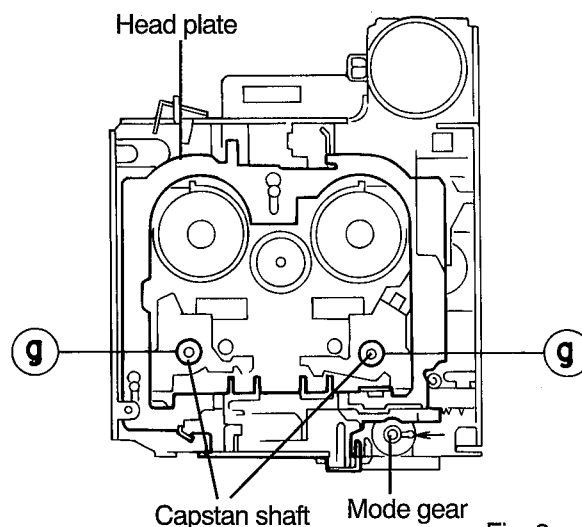


Fig. 9

■ Removing the Reel Disk Board (See Fig. 10)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Removing the cassette holder and holder arm assembly.
4. Removing the sub chassis assembly.
5. Straighten the curved tab (h) from the tip by first pressing down the reel feather to expose it.
6. Remove the two screws (7) fixing the reel disk board.
7. Remove the reel disk board.

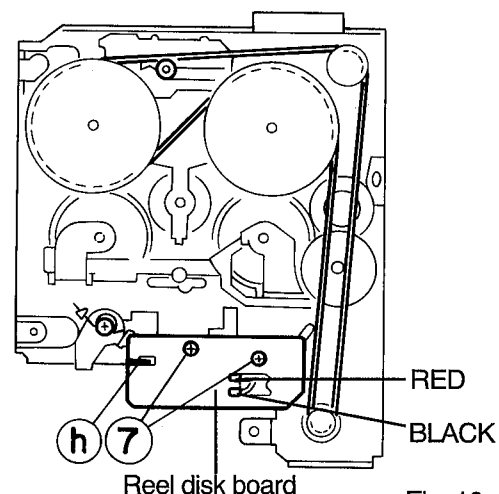


Fig. 10

■ Removing the Loading Motor Assembly (See Fig. 11)

1. Removing the head relay board.
2. Removing the load arm assembly.
3. Remove the mylar washer ① fixing the worm gear.
Note : When reassembling, be sure to use a new mylar washer.
4. Remove the one screw ⑧ fixing the loading motor assembly.
5. Remove the two screws ⑨ fixing the motor bracket.

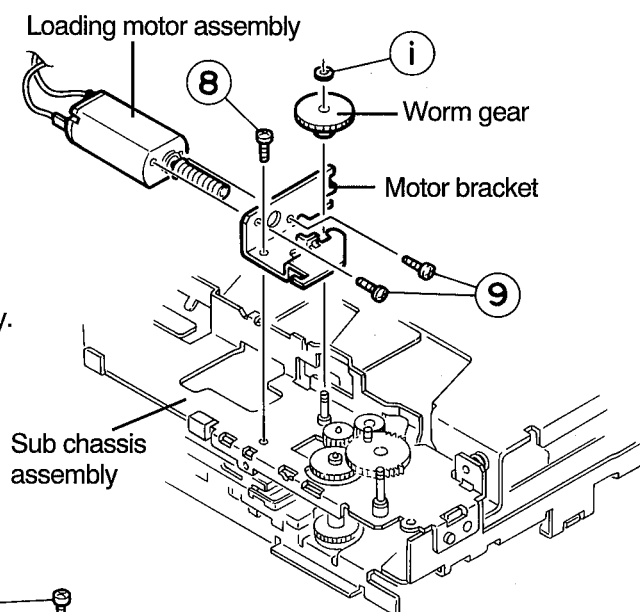


Fig. 11

■ Removing the Flywheel Assembly (See Fig. 12)

1. Insert the mode gear into the sub chassis assembly.
2. Install the sub chassis assembly and secure it with the two screws ③ and ④ as shown in.
- Note : The set arm assembly and the mode gear should be positioned as shown in Fig. 12.

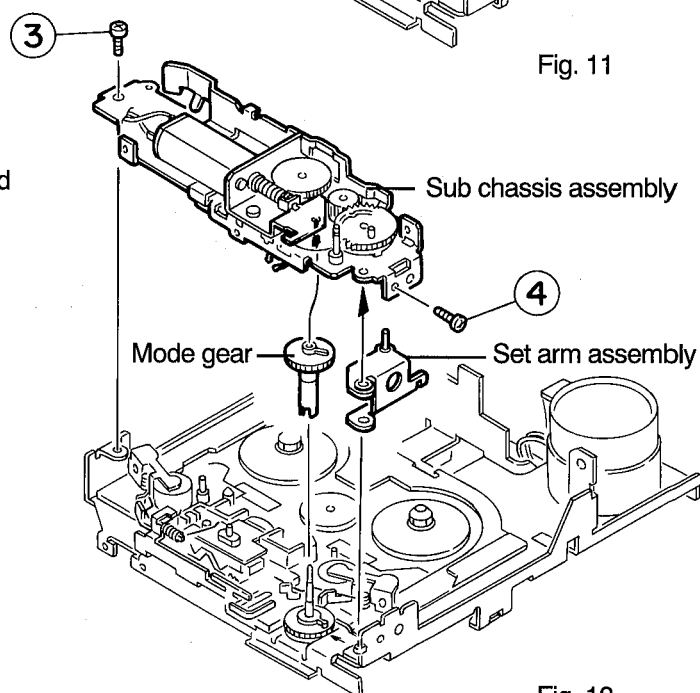


Fig. 12

3. Attach the cassette holder as shown in Fig. 13.
In the case, first pass the tab of the section ① through the mechanism ②, then attach the cassette holder in the direction shown by arrow.

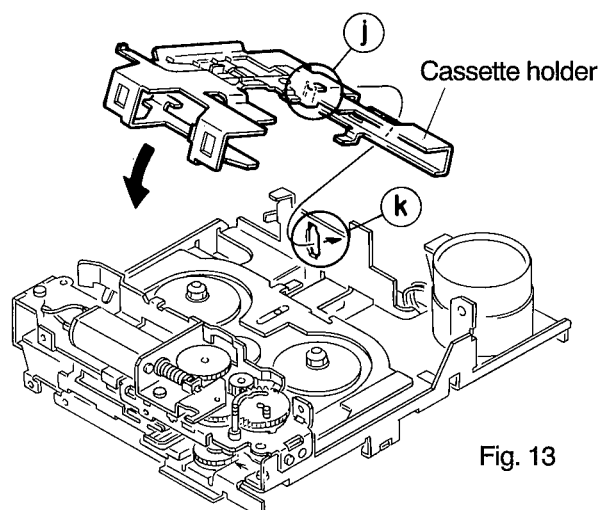


Fig. 13

4. Set the catch (K) to the holder arm assembly as shown in Fig. 14.

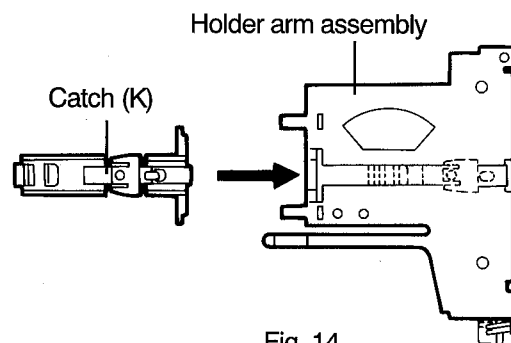


Fig. 14

5. While attaching the holder arm assembly to the cassette holder, insert the shaft of the holder arm assembly into the interlocking section © of the sub chassis assembly as shown in Fig. 15.
6. Install the spring attached to the holder arm assembly shaft over the set arm assembly as shown in Fig. 16.
7. After the holder arm assembly is installed, secure it with the screw ②. (See Fig. 15)

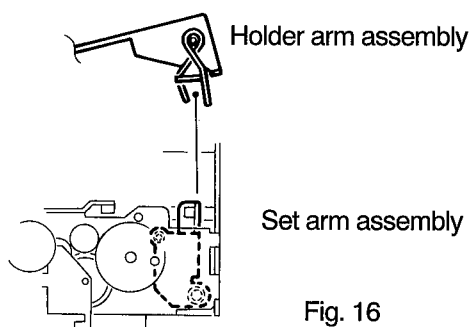


Fig. 16

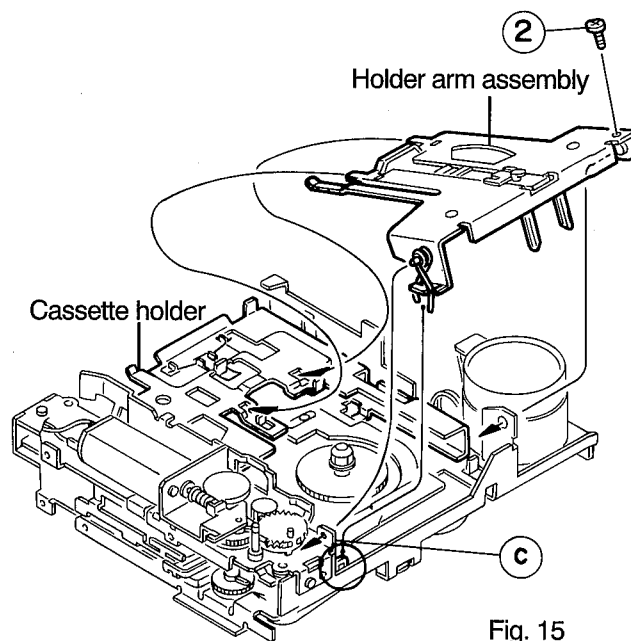


Fig. 15

8. After the installation, apply DC6V to the lead wires of the loading motor assembly to locate the load gear assembly as shown in Fig. 17.
9. Install the load arm assembly.
10. Install the head relay board..
- Note : Install it so that the slide switch lever of the head relay board is set in the printed circuit board stay hook of the sub chassis assembly. (See Fig. 18)

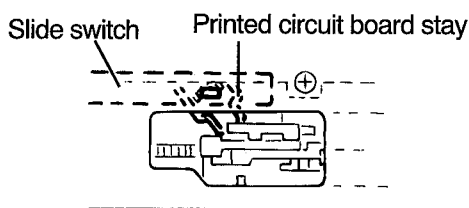


Fig. 18

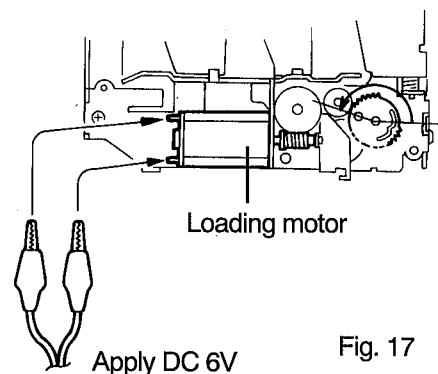


Fig. 17

11. Solder the loading motor and head lead wires to the head relay board, respectively. (See Fig. 19)

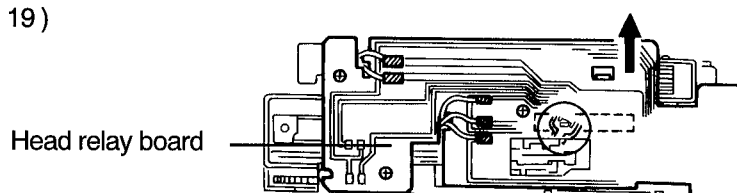


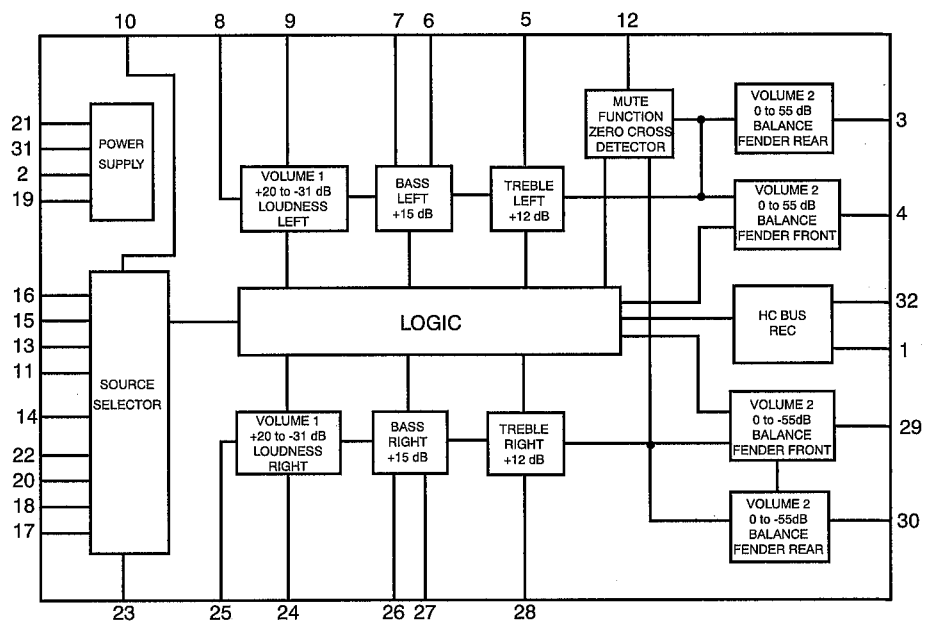
Fig. 19

TEA6320T(IC931):E.VOLUME

1.Terminal Layout

SDA	1		32	SCL
GND	2		31	VCC
OUTLR	3		30	OUTRR
OUTLF	4		29	OUTRF
TL	5		28	TR
B2L	6		27	B2R
B1L	7		26	B1R
IVL	8		25	IVR
ILL	9		24	ILR
QSL	10		23	QSR
IDL	11		22	IDR
MUTE	12		21	Vref
ICL	13	CD-CH	20	ICR
IMD	14		19	CAP
IBL	15	TAPE	18	IBR
IAL	16	TUNER	17	IAR

2.Block Diagram



3.Pin Functions

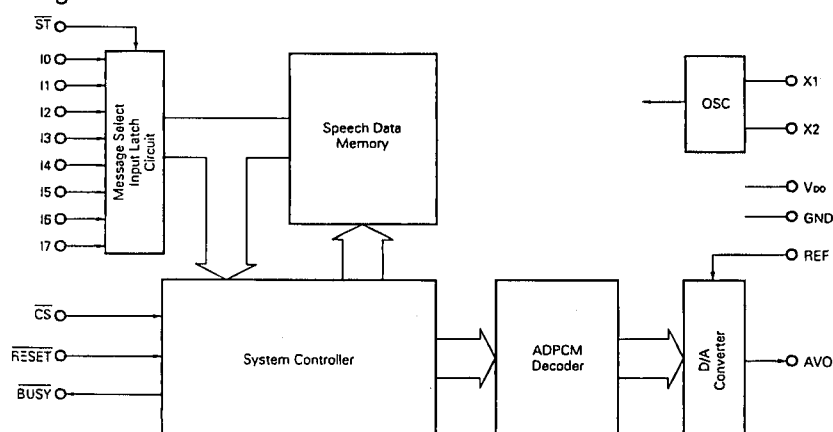
Pin No.	Symbol	I/O	Functions
1	SDA	I/O	Serial data input/output.
2	GND	-	Ground.
3	OUTLR	O	output left rear.
4	OUTLF	O	output left front.
5	TL	I	Treble control capacitor left channel or input from an external equalizer.
6	B2L	-	Bass control capacitor left channel or output to an external equalizer.
7	B1L	-	Bass control capacitor left channel.
8	IVL	I	Input volume 1. left control part.
9	ILL	I	Input loudness. left control part.
10	QSL	O	Output source selector. left channel.
11	IDL	-	Not used
12	MUTE	-	Not used
13	ICL	I	Input C left source.
14	IMO	-	Not used
15	IBL	I	Input B left source.
16	IAL	I	Input A left source.
17	IAR	I	Input A right source.
18	IBR	I	Input B right source.
19	CAP	-	Electronic filtering for supply.
20	ICR	I	Input C right source.
21	Vref	-	Reference voltage (0.5Vcc)
22	IDR	-	Not used
23	QSR	O	Output source selector right channel.
24	ILR	I	Input loudness right channel.
25	IVR	I	Input volume 1. right control part.
26	B1R	-	Bass control capacitor right channel
27	B2R	O	Bass control capacitor right channel or output to an external equalizer.
28	TR	I	Treble control capacitor right channel or input from an external equalizer.
29	OUTRF	O	Output right front.
30	OUTRR	O	Output right rear.
31	Vcc	-	Supply voltage.
32	SCL	I	Serial clock input.

■UPD7758AGT-722X(IC451):VOICE SUPPORT CONTROL

1.Terminal Layout

Vdd	1	24	GND
X2	2	23	RESET
X1	3	22	BUSY
	4	21	
$\overline{\text{CS}}$	5	20	AVO
START	6	19	REF
	7	18	
	8	17	-
C0	9	16	
C1	10	15	-
C2	11	14	C5
C3	12	13	C4

2.Block diagram

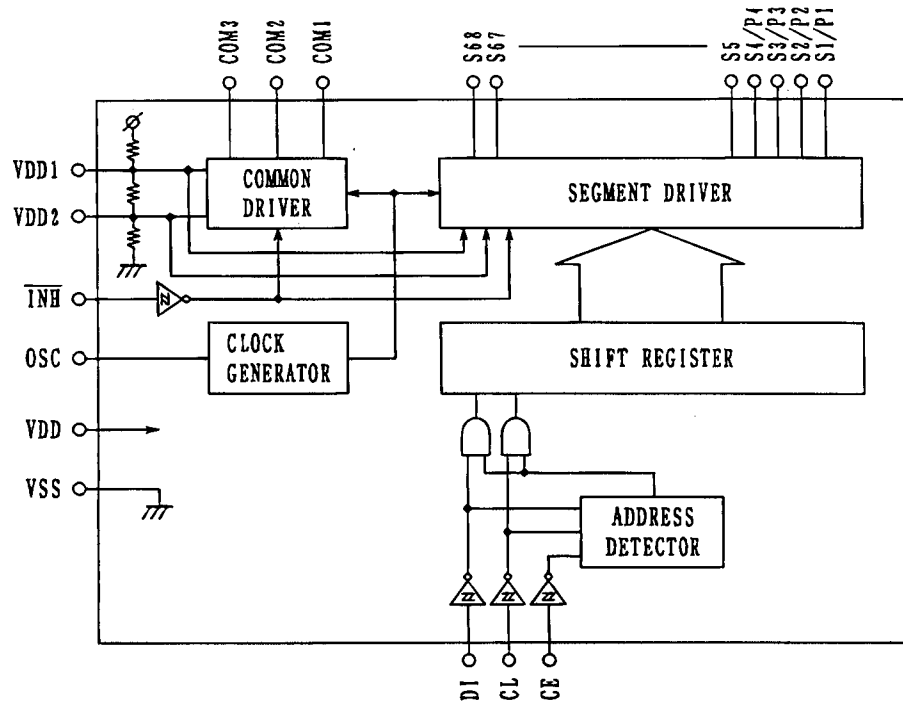


3.Pin function

Pin No.	Symbol	I/O	Description
1	Vdd	-	Power Supply (2.7 to 5.5V)
2	X2	-	Ceramic resonator connection for generating a clock signal. Connect the 640kHz ceramic resonator. In standby mode, the LSI outputs a low-level signal to X1 and a high-level to X2
3	X1	-	
4	NC	-	Non connect
5	$\overline{\text{CS}}$	I	Chip Select signal input. ST becomes valid when CS goes low.
6	START	I	Start signal input.
7,8	NC	-	Non connect
9,14	C0~C5	I	Message selection code input.
15	-	-	To ground
16	NC	-	Non connecting
17	-	-	To ground
18	NC	-	Non connecting
19	REF	I	D/A converter reference current input.
20	AVO	O	Analog speech signal output.
21	NC	-	Non connecting
22	$\overline{\text{BUSY}}$	O	Active-low BUSY signal output. When inputting ST signal, it outputs a low level signal.
23	RESET	I	Reset signal input.
24	GND	-	To ground

■ LC75873NE(IC601):LCD Driver

1. Block Diagram

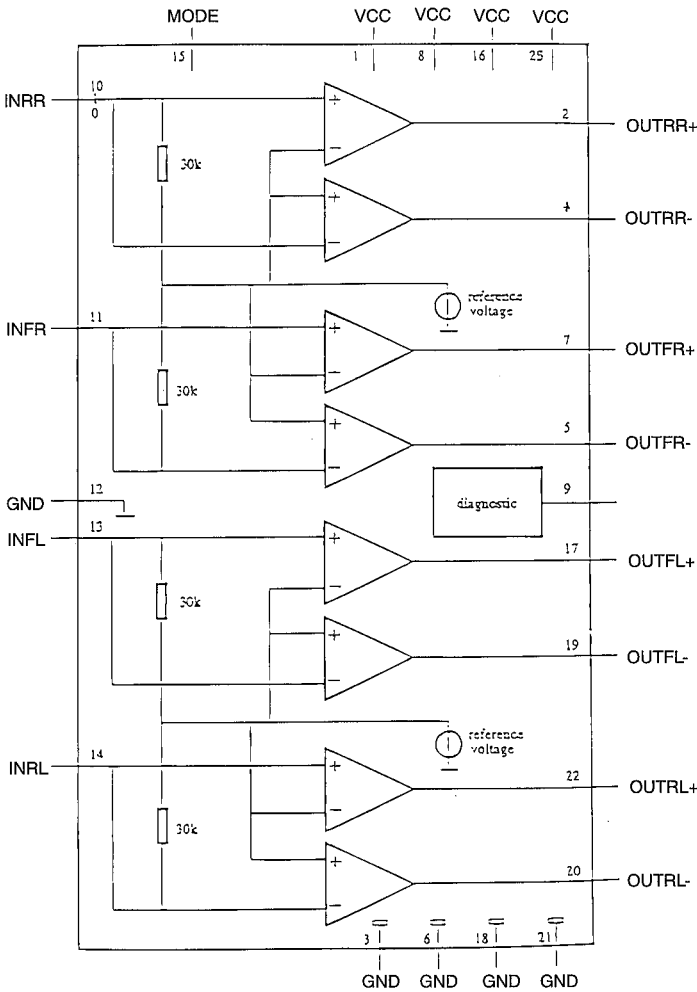


2.Pin Functions

Pin No.	Symbol	I/O	Description
1~67	S1~S67	O	Segment Output.
68	NC	-	Non connect.
69~70	COM1~3	O	Common Driver Output.
72	VDD	-	Power Supply Connection.
73	VDD1	I	Used for applying the LCD drive 2/3 bias voltage externally. Must be connected to VDD2 when a 1/2 bias drive scheme in used.
74	VDD2	I	Used for applying the LCD drive 1/3 bias voltage externally. Must be connected to VDD1 when a 1/2 bias drive scheme in used.
75	VSS	-	Power supply connection.
76	OSC	I/O	Oscillator connection. An oscillator circuit is formed by connecting an external resistor and capacitor to this pin.
77	$\overline{\text{INH}}$	I	Display off control input.
78	CE	I	Chip enable input.
79	CLOCK	I	Synchronization clock input.
80	DATA	I	Serial data input.

■TDA8567Q(IC981):Power AMP

1.Block Diagram



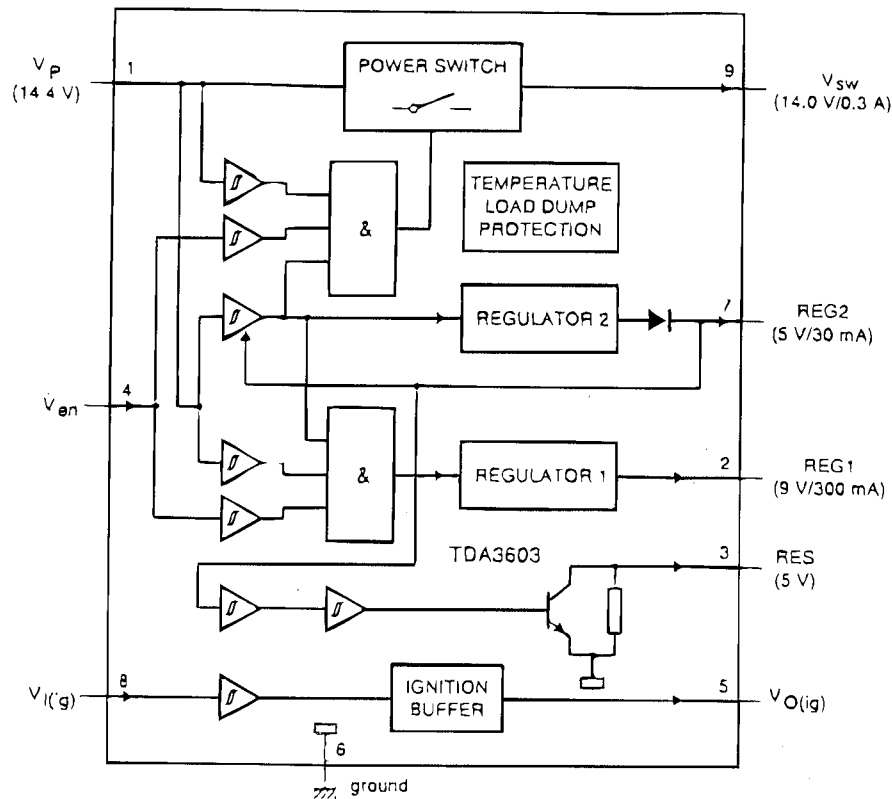
2.Description

Pin No.	Symbol	I/O	Function
1	Vcc	-	Supply voltage 1
2	OUTRR+	O	Output rear right side (+)
3	GND	-	Power ground 1
4	OUTRR-	O	Output rear right side (-)
5	OUTFR-	O	Output front right side (-)
6	GND	-	Power ground 2
7	OUTFR+	O	Output front right side(+)
8	Vcc	-	Supply voltage 2
9		-	Non connect
10	INRR	I	Input rear right side
11	INFR	I	Input front right side
12	GND	-	To ground

Pin No.	Symbol	I/O	Function
13	INFL	I	Input front left side
14	INRL	I	Input rear left side
15	MODE	O	Mode select switch
16	Vcc	-	Supply voltage 3
17	OUTFL+	O	Output front left side(+)
18	GND	-	Power ground 3
19	OUTFL-	O	Output front left side(-)
20	OUTRL-	O	Output rear left side(-)
21	GND	-	Power ground 4
22	OUTRL+	O	Output rear left side(+)
23	VCC	-	Supply voltage 4

■TDA3603P(IC781):Regulator

1.Block Diagram



2.Description

Pin No.	Symbol	I/O	Function
1	Memory in	-	Power supply
2	9V	-	Regurator 1 output
3	-	-	Non connect
4	Power in	I	Enable input voltage
5	ACC5V	-	Ignition output voltage
6	GND	-	To ground
7	5V	O	Regulator 2 output
8	ACC.IN	I	Ignition input voltage
9	14V	O	Power switch output voltage
10~18	-	-	To ground

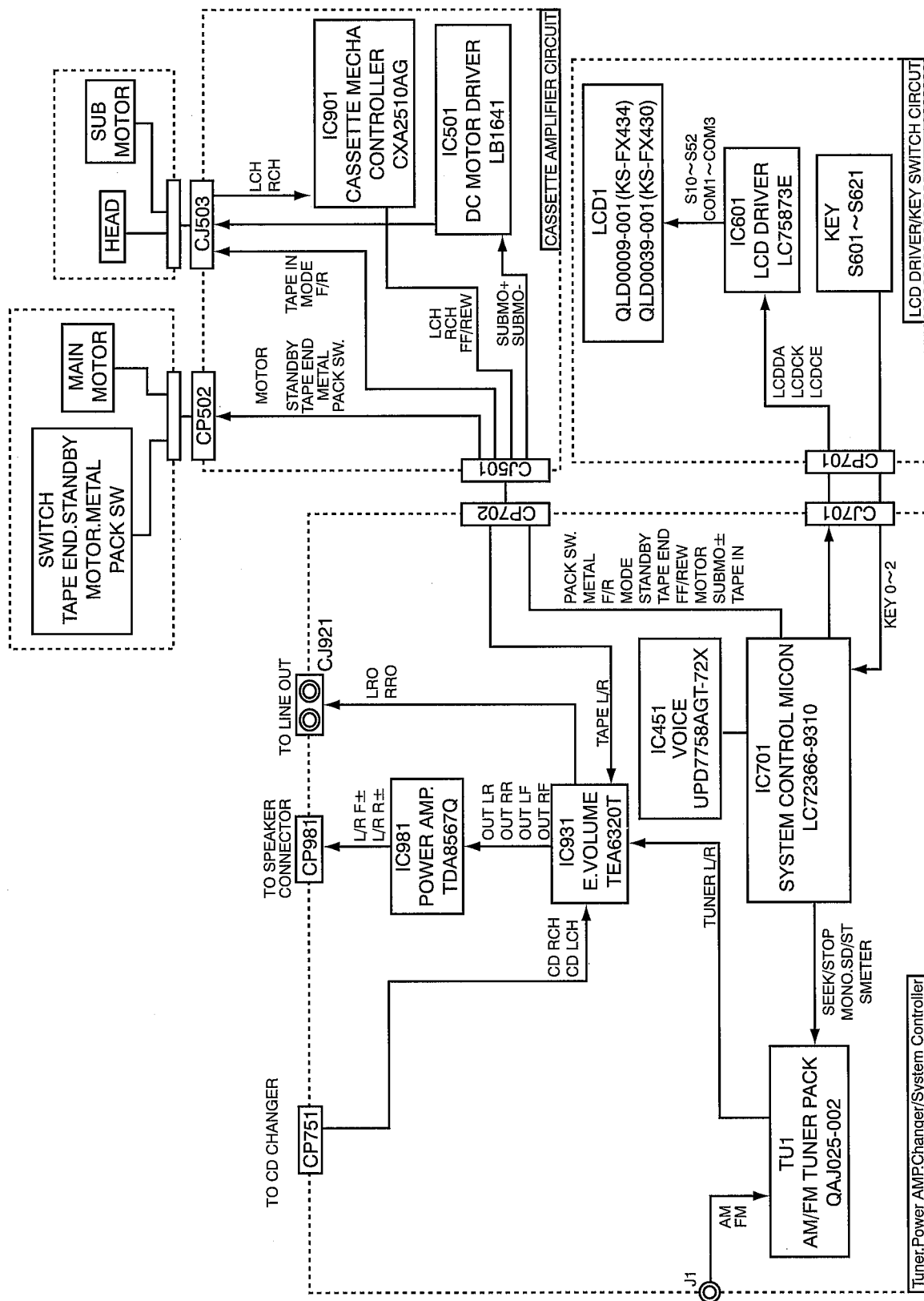
■ IC701 : LC72366 (SYSTEM CPU)

Pin No.	Port Name	I/O	Description
1	XIN	I	4.5MHz crystal oscillator input port
2	TEST2	-	Test port for LSI (Connect the GND)
3	J-BUS SI	I	Data input for J-BUS information
4	J-BUS SO	O	Data output for J-BUS information
5	J-BUS SCK	O	Clock output for J-BUS information
6	J-BUS I/O	O	Switching signal output for J-BUS information I/O, H:Out L:In
7	NC	-	None connection
8	LCD DATA	O	Data output for LCD driver
9	LCD SCK	O	Information clock output for LCD driver data
10	LCD CE	O	Chip enable output for LCD driver
11	NC	-	None connection
12	VOL SO	O	Data output for electrical volume
13	VOL SCK	O	Clock output for electrical volume information
14	VO BUSY	I	Busy signal input port for voice support system
15	TUNER	O	LED indicator port for tuner, H:Tuner mode
16	TAPE	O	LED indicator port for tape key, H: Tape mode
17	CD	O	LED indicator port for CD key, H: CD mode
18	VO START	O	Voice support system starting output
19	VO C5	O	Address establishing output for voice support system
20	VO C4	O	Address establishing output for voice support system
21	VO C3	O	Address establishing output for voice support system
22	VO C2	O	Address establishing output for voice support system
23	VO C1	O	Address establishing output for voice support system
24	VO C0	O	Address establishing output for voice support system
25	VO MUTE	O	Voice having muting output port except to voice output
26	KSO	O	Diode matrix output port for initial establishing
27	K3	I	Diode matrix output port for initial establishing
28	K2	I	Diode matrix output port for initial establishing
29	K1	I	Diode matrix output port for initial establishing
30	K0	I	Diode matrix output port for initial establishing
31	Vdd	-	5V power supply port (+B)
32	TEST	I	Turn on all light indicator of LCD, L: All light a LED indicator
33	VO RST	O	Reset output for voice support system
34	SEEK/STOP	O	H:Auto seek, L: Stop Use both as IF count REQ and Seek/Stop
35	MONO	O	Forced monaural output port, H:Turn on Forced monaural
36	R/T	O	Switching signal output for radio / tape, H:Radio L: Tape
37	VO LEVEL	O	Level switching output for Voice support system
38	POWER ON	O	"H" : Turn on power
39	ACC	O	It is "H" output when "ACC DET" port was to "H" from "L"
40	KICK	O	Voltage control port for transporting motor.

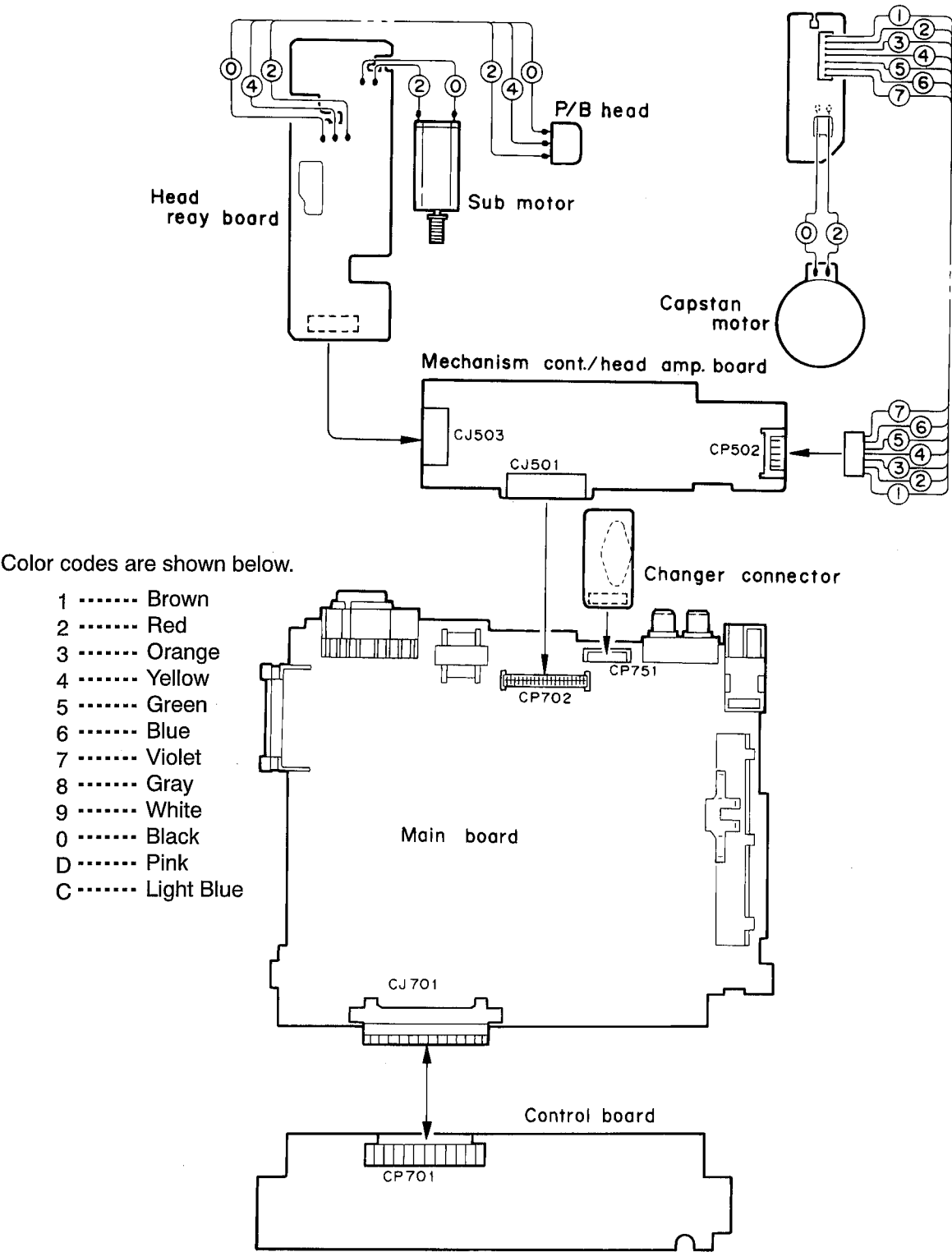
■ IC701 : LC72366 (SYSTEM CPU)

Pin No.	Port Name	I/O	Description
41	MOTOR	O	Main motor output, H:Transport L: Stop
42	SUBMO+	O	Sub-motor output(+), Loading direction to transport output
43	SUBMO-	O	Sub-motor output(-), Eject direction to transport output
44	FF/REW	O	Select the input sensitivity for MSIC, L: Playing the FF/REW
45	TAPE IN	I	Switch for detecting to input cassette, L: Cassette in
46	STANDBY	I	Switch for detecting standby position
47	TAPE END	I	Switch for detecting tape end position
48	MODE	I	Detecting mode position input
49	F/R	I	Switch for detecting forward/reverse , H:FWD L:REV
50	MS IN	I	MS input port,
51	SD/ST	I	Station detector, Stereo signal input, H:SD
52	DIMMEROUT	O	Forced turn off port for dimmer circuit.
53	DETACH	I	Connection detecting port for front panel
54	OPEN	I	Door open detecting, H:Open
55	J-BUS INT	I	Cut in signal detecting port from J-Bus information
56	REMOCON	I	Cut in signal detecting port from remote control unit
57	FM/AM	O	FM/AM mode switching signal port, H:FM L:AM
58	DOLBY	O	DOLBY output port, DOLBY on : H
59	NC	-	None connection
60	MUTE	O	Mute output port, L:Mute
61	MEMORY DET	I	Back-up power supply detecting port, H:input L:no input
62	LEVEL	I	Pressure voice level voltage input for level meter.
63	S METER	I	S meter voltage input
64	KEY2	I	Key 2 input port
65	KEY1	I	Key 1 input port
66	KEY0	I	Key 0 input port
67	ACC DET	I	Hold port for Acc detecting, L: Hold mode
68	SNS	I	Voltage sensor port
69	CRUISE	I	Revolution of engine detecting for cruise, 500-10kHz :5Vpulse
70	FMIF	I	FM frequency detecting
71	NC	-	None connection
72	NC	-	None connection
73	Vdd	-	5V power supply (+B)
74	AMIN	I	AM limited signal input
75	FMIN	I	FM limited signal input
76	GND	-	Ground port for power supply
77	NC	-	None connection
78	E01	O	Error signal output port for PLL
79	TEST1	-	Test port for LSI, To connect ground
80	XOUT	O	4.5MHz crystal oscillator output

Block Diagram



Wiring Connections



Main Adjustment

■ Test Instruments required for adjustment

1. Digital oscilloscope(100MHz)
2. Frequency Counter meter
3. Electric voltmeter
4. Wow & flutter meter
5. Test Tapes
 - VT724 ----- for DOLBY level measurement
 - VT739 ----- For playback frequency measurement
 - VT712 ---- For wow flutter & tape speed measurement
 - VT703 ----- For head azimuth measurement
6. Torque gauge ----- Cassette type for CTG-N
(mechanism adjustment)

■ Measuring conditions(Amplifier section)

Power supply voltage ----- DC14.4V(10.5~16V)
 Load impedance ----- 4 Ω (2Speakers connection)
 Line out ----- 20k Ω

■ Standard volume position

Balance and Bass, Treble volume .Fader
 :Center(Indication"0")

Loudness, Dolby NR, Sound, Cruise: Off

Volume position is about 2V at speaker output with
 following conditions. Playback the test tape VT721.

AM mode 999kHz/62dB, INT/400Hz, 30%
 modulation signal on receiving.

FM mono mode 97.9MHz/66dB, INT/400Hz, 22.5kHz
 deviation pilot off mono

FM stereo mode 1kHz, 67.5kHz dev. pilot 7.5kHz dev.

Output level 0dB(1 μ V, 50 Ω /open terminal)

■ Tuner section

BAND STEP

FM : 100kHz (Seek), 50kHz (Manual)

AM : 9kHz step

■ Preset Memory Initialization

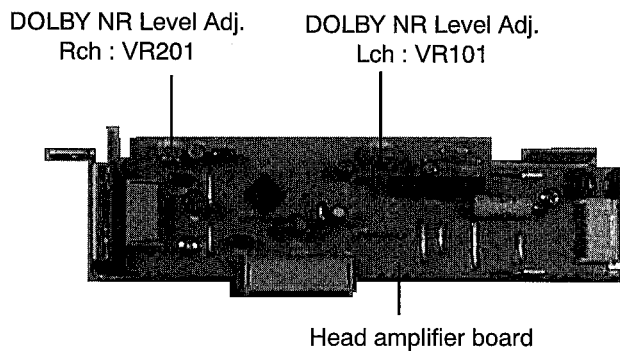
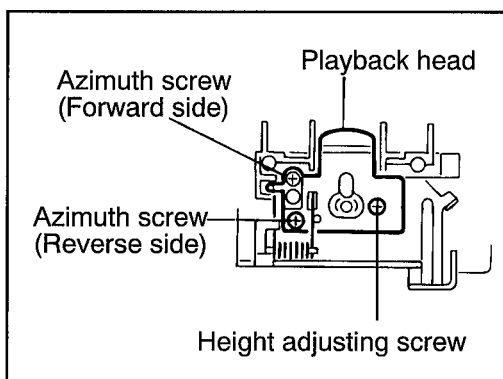
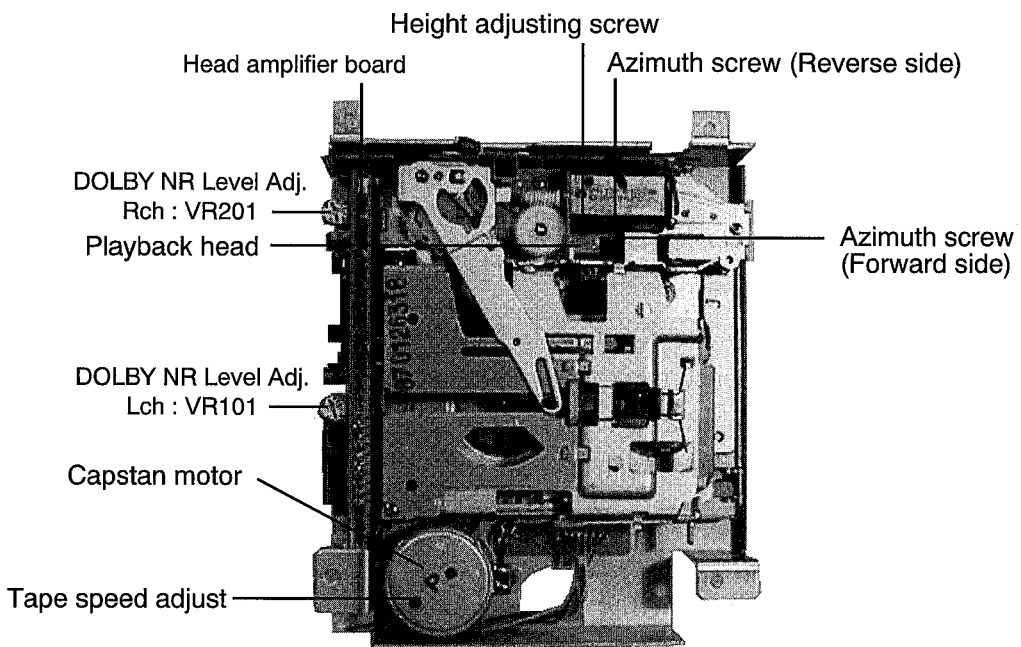
Band	Preset Memory					
	M1	M2	M3	M4	M5	M6
FM(MHz)	87.5	89.9	97.9	105.9	108.0	87.5
AM(kHz)	531	603	999	1404	1602	531

DUMMY LOAD

Exclusive dummy load should be used for AM and FM dummy load, there is a loss of 6dB between SSG output and antenna input. The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

■ Arrangement of Adjusting & Test points

Cassette mechanism
(Surface)



■ Information for using a Car Audio Service Jig

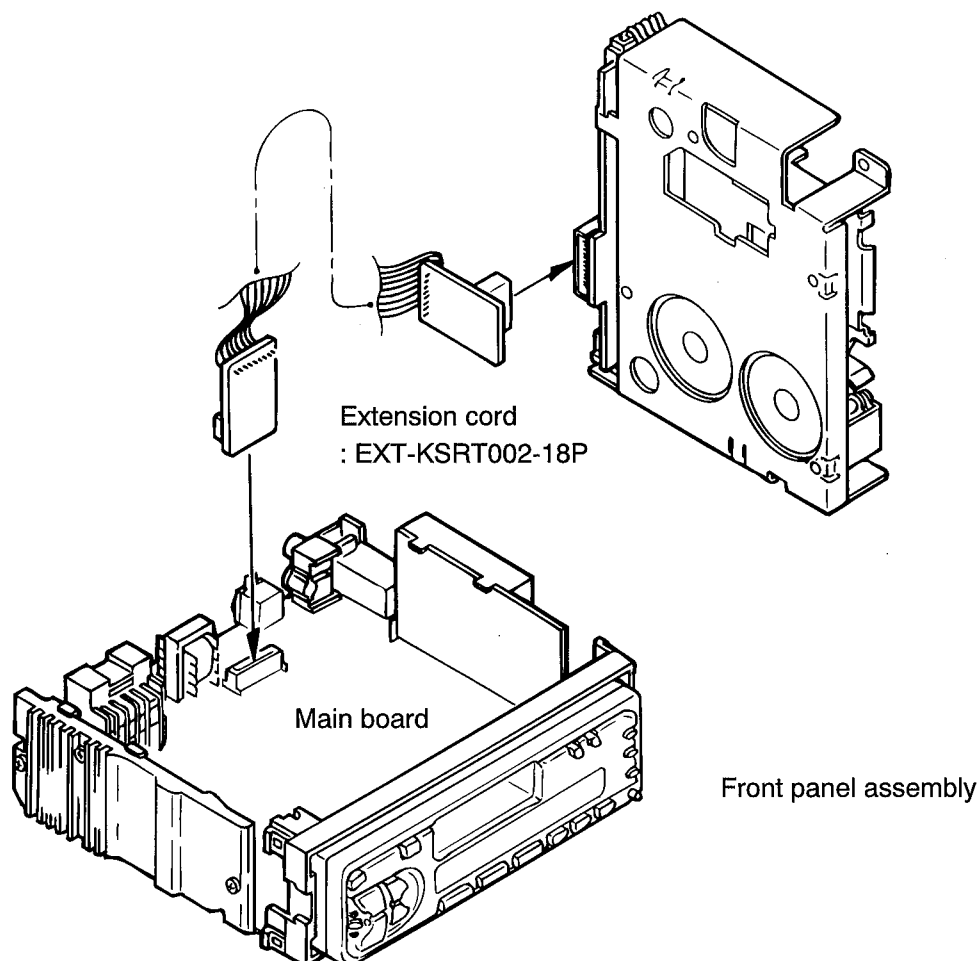
1. For 1995 and 1996 , we're advancing efforts to make our extension cords common for all car audio products.
Please use this type of extension cord as follows.
2. As a U-shape type top cover is employed, this type of extension cord is needed to check operation of the mechanism assembly after disassembly.
3. Extension cord : EXT-KSRT002-18P (18 pin extension cord)
For connection between mechanism assembly and main board assembly.
Check for mechanism driving section such as motor ,etc..

■ Disassembly Method

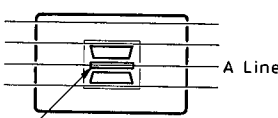
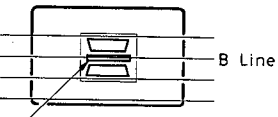
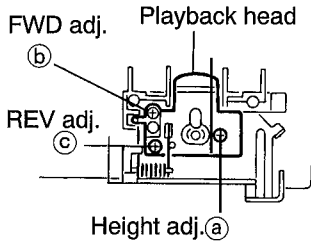
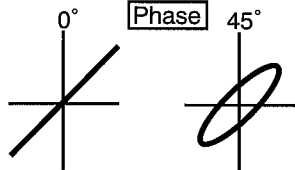
1. Remove the bottom cover.
2. Remove the front panel assembly.
3. Remove the top cover .
4. Install the front panel.
5. Confirm that current is being carried
by connecting an extension cord jig.

Note

Available to connect to the CN701 connector
when installing the front panel.

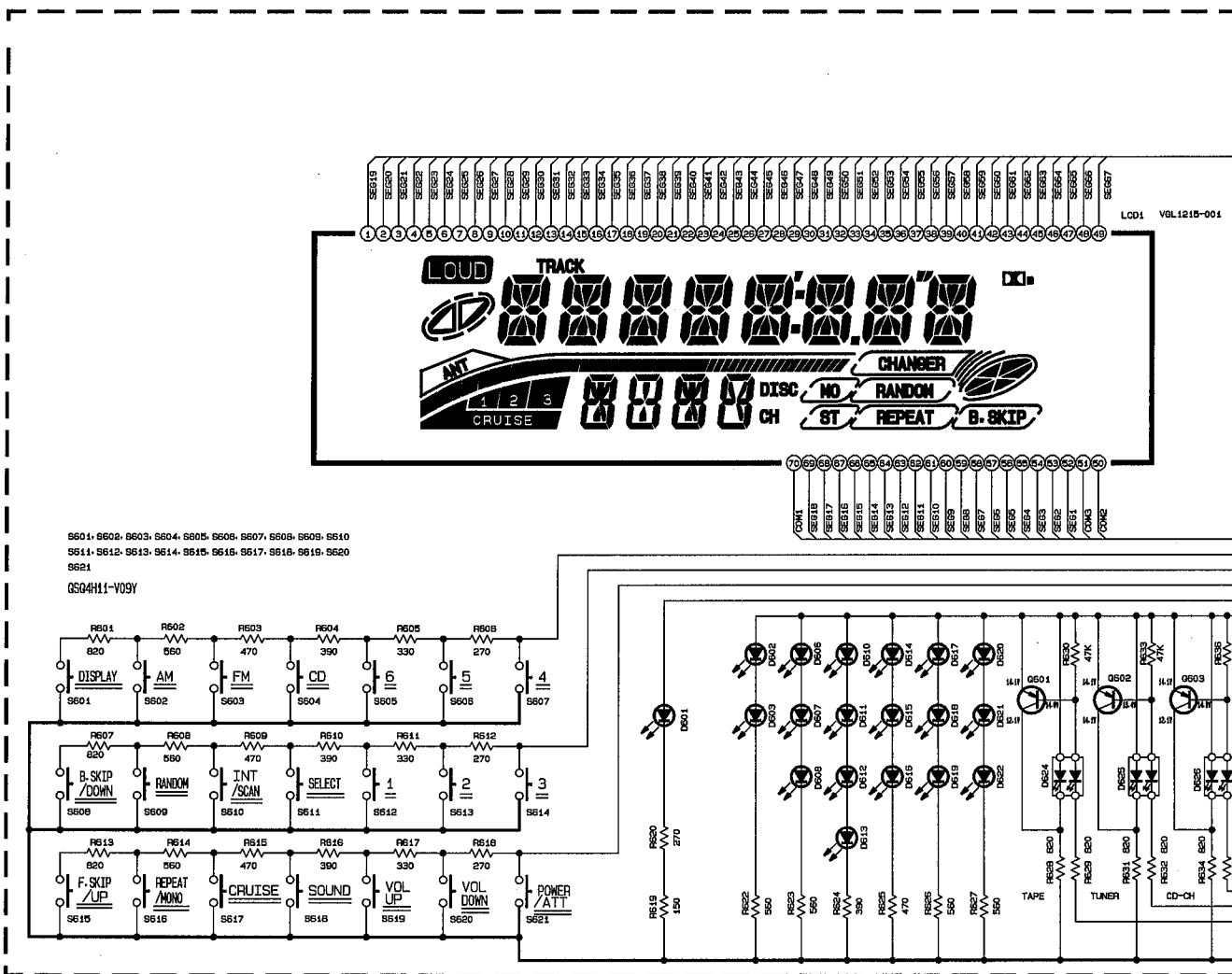


Mechanism Adjustment Section

Item	Adjusting & Confirmation Methods	Adjust	Std. Value
1.Head azimuth	"Head Height Adjustment" Note Adjust the azimuth directly. When you adjust the height using a mirror tape, remove the cassette housing from the mechanism chassis. After installing the cassette housing, perform the azimuth adjustment. - load the mirror tape (SCC-1659). Adjust with height adjustment screw ③ and azimuth adjustment screw ⑥ so that line "A" of the mirror tape runs in the center between Lch and Rch in the reverse play mode. - After switching from REV to FWD then to REV, check that the head position set in procedure "1" is not changed. *If the position has shifted, adjust again and check. - Adjust the azimuth screw ⑥ so that line "B" of the mirror tape runs in the center between Lch and Rch in the forward play mode. "Head Azimuth Adjustment" - Load the test tape (VT724: 1kHz) and play it back in the reverse play mode. set the Rch output level to maximum. - Load the test tape (VT703: 10kHz) and play it back in the forward play mode. Adjust the Rch and Lch output levels to maximum, with azimuth adjustment screw ⑥ . In this case, the phase difference should be within 45° . - Engage the reverse mode and adjust the output level to maximum, with azimuth adjustment screw ③ . - When switching between forward and reverse modes, the difference between channels should be within 3dB. *Between FWD Lch and Rch, REV Lch and Rch. - When the test tape (VT721 (315Hz) is played back, the level difference between channels should be within 1.5dB.	 Head shield The head is at low position during FWD.  Head shield The head is at height position during REV.  FWD adj. Playback head REV adj. Height adj. ③  0° Phase 45°	
2. Tape Speed and Wow & Flutter	- Check to see if the reading of the frequency counter & Wow flutter meter is within 3015-3045 Hz (FWD/REV), and less than 0.35% (JIS RMS). - In case of out of specification, adjust the motor with a built-in volume resistor.	Built-in volume resistor	Tape Speed 3015-3045Hz Wow&Flutter Less than 0.35% (JIS RMS)
3. DOLBY NR level adjustment	- Play the test tape (VT724 : 1kHz) back. - Adjust the VR101(Lch) and VR201(Rch) so that the DOLBY NR level is 27.5mV±0.5dB by TP101(Lch), TP201(Rch).	VR101:Lch VR201: Rch	Speaker out 1kHz/10kHz : -1dB±3dB, 63Hz/1kHz : 0dB±3dB,

Standard Schematic Diagrams

■LCD Driver & Operation Switch Circuit



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION—TAPE MODE.

2. UNLESS OTHERWISE SPECIFIED.

ALL RESISTORS ARE 1/4W ±5% OR 1/10W ±5% METAL GLAZE RESISTOR.

ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.

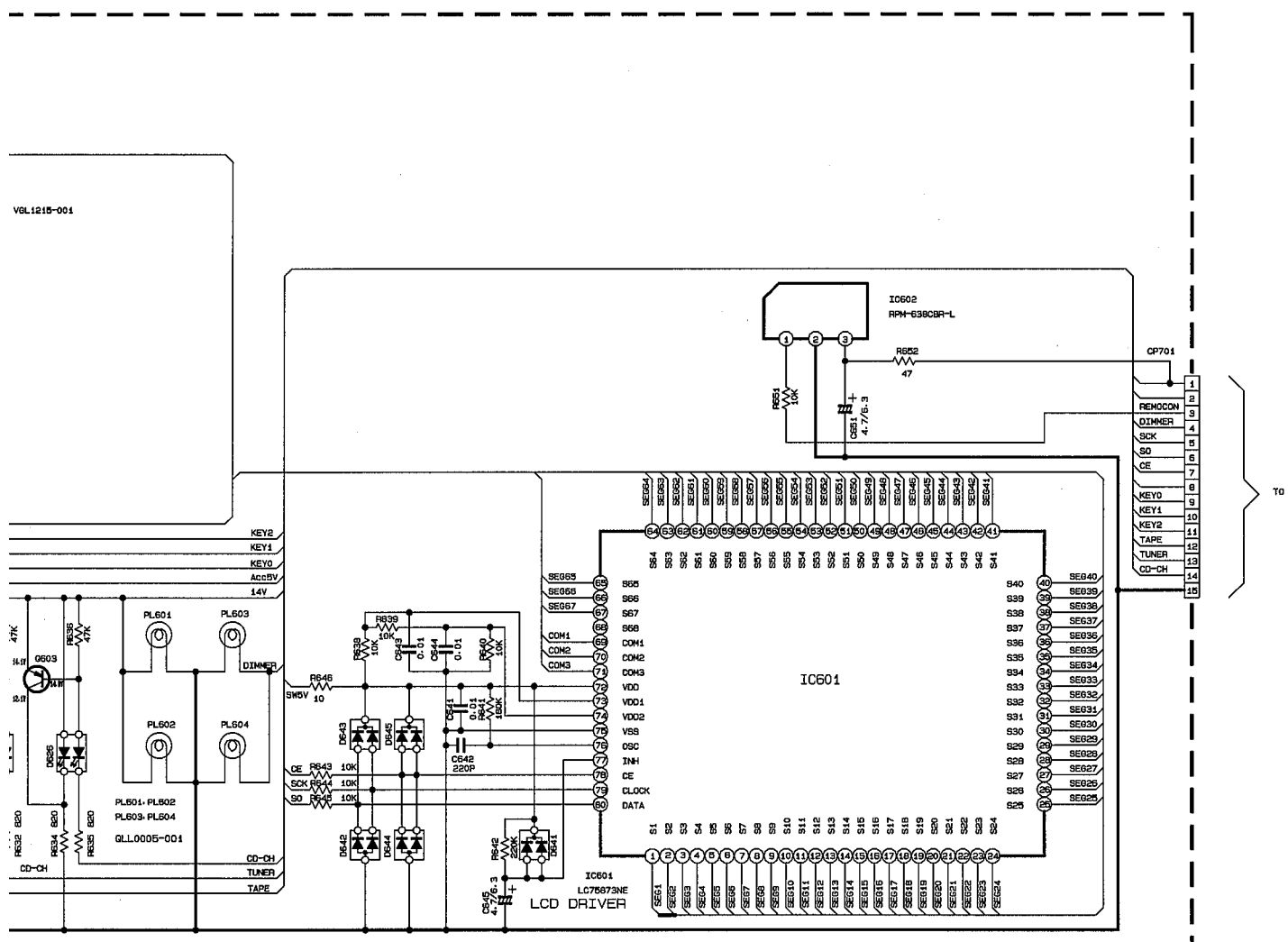
ALL RESISTANCE VALUES ARE IN OHM(A).

ALL CAPACITANCE VALUES ARE IN $\mu\text{F}/\text{RFD}$

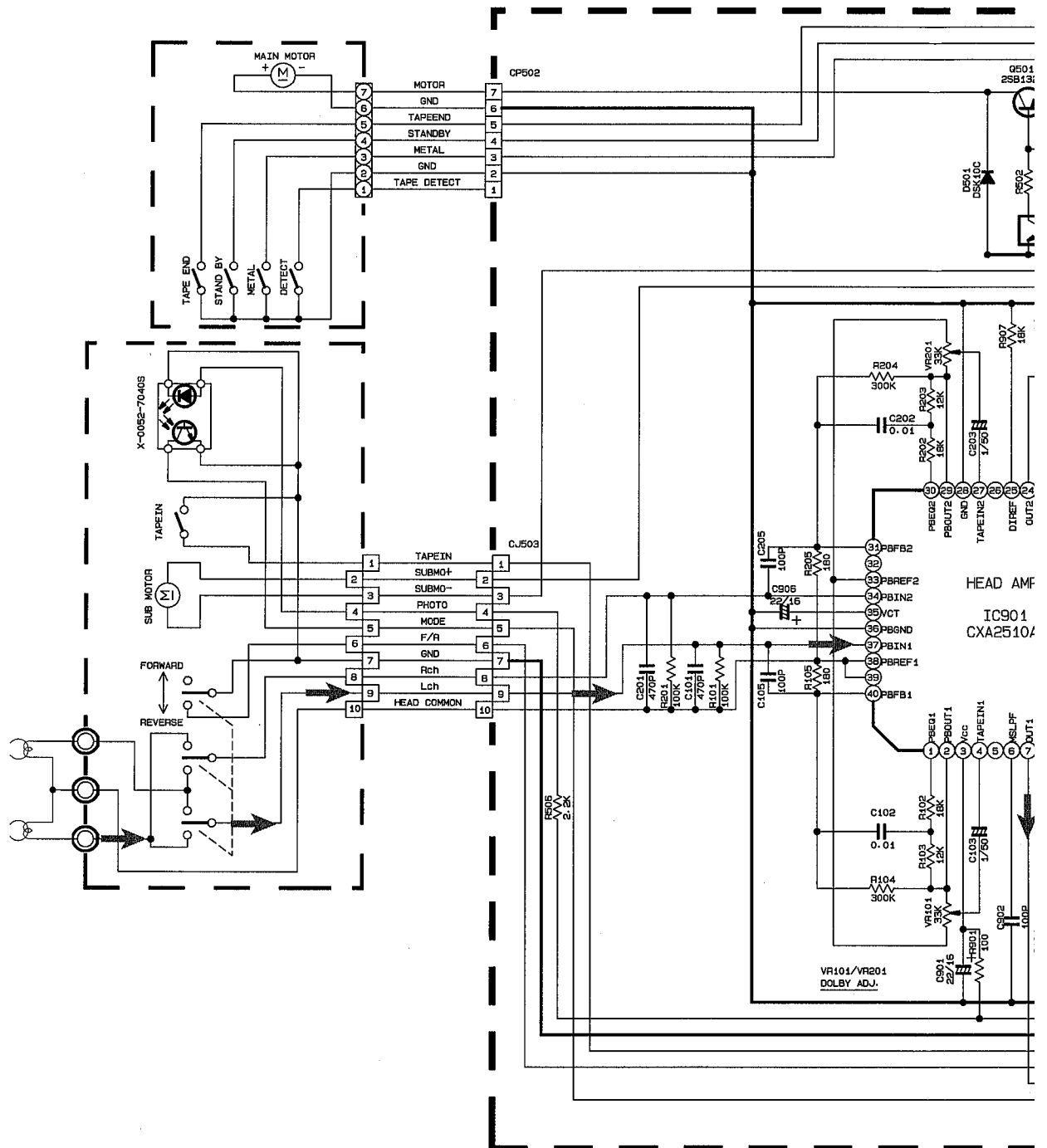
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)

TF-----TF CAPACITOR

2S8B1587-T-T8	G601, G602, G603
MA152WK-TX	D641, D643, D645
MA152WA-TX	D642, D644
SML-010LTT87	D601, D602, D603, D606, D607 D608, D610, D611, D612, D613 D614, D616, D618, D617, D619 D619, D620, D621, D622
SML-020MVT87	D624, D626, D626



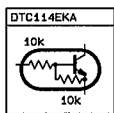
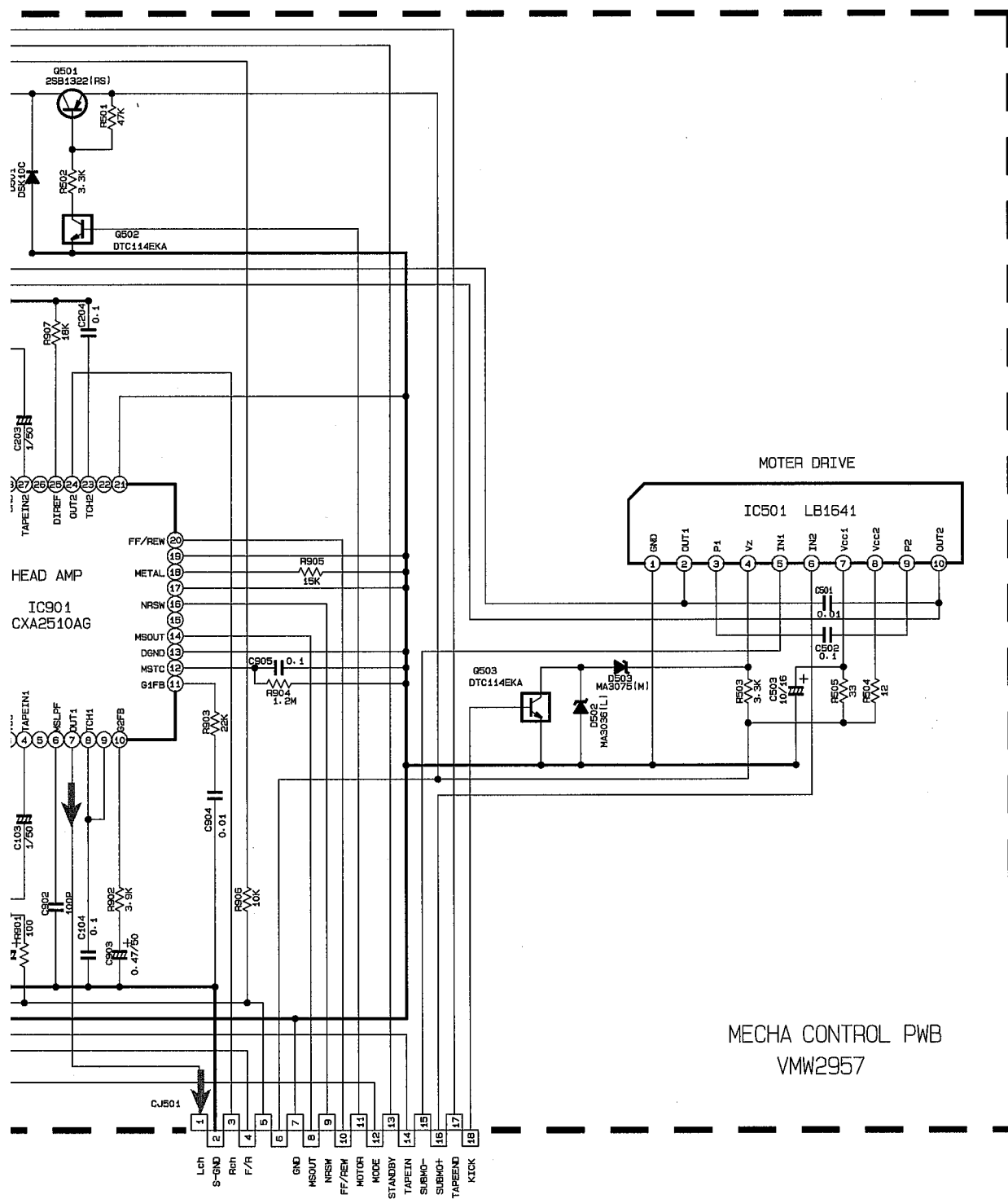
■ Head Amplifier & Mechanism Drive Circuit



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION—TAPE MODE.
2. UNLESS OTHERWISE SPECIFIED.
 - ALL RESISTORS ARE 1/4W ±5% OR 1/10W ±5% METAL GLAZE RESISTOR.
 - ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
 - ALL RESISTANCE VALUES ARE IN OHM(Ω).
 - ALL CAPACITANCE VALUES ARE IN pF(pF).
 - ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)

TF——TF CAPACITOR



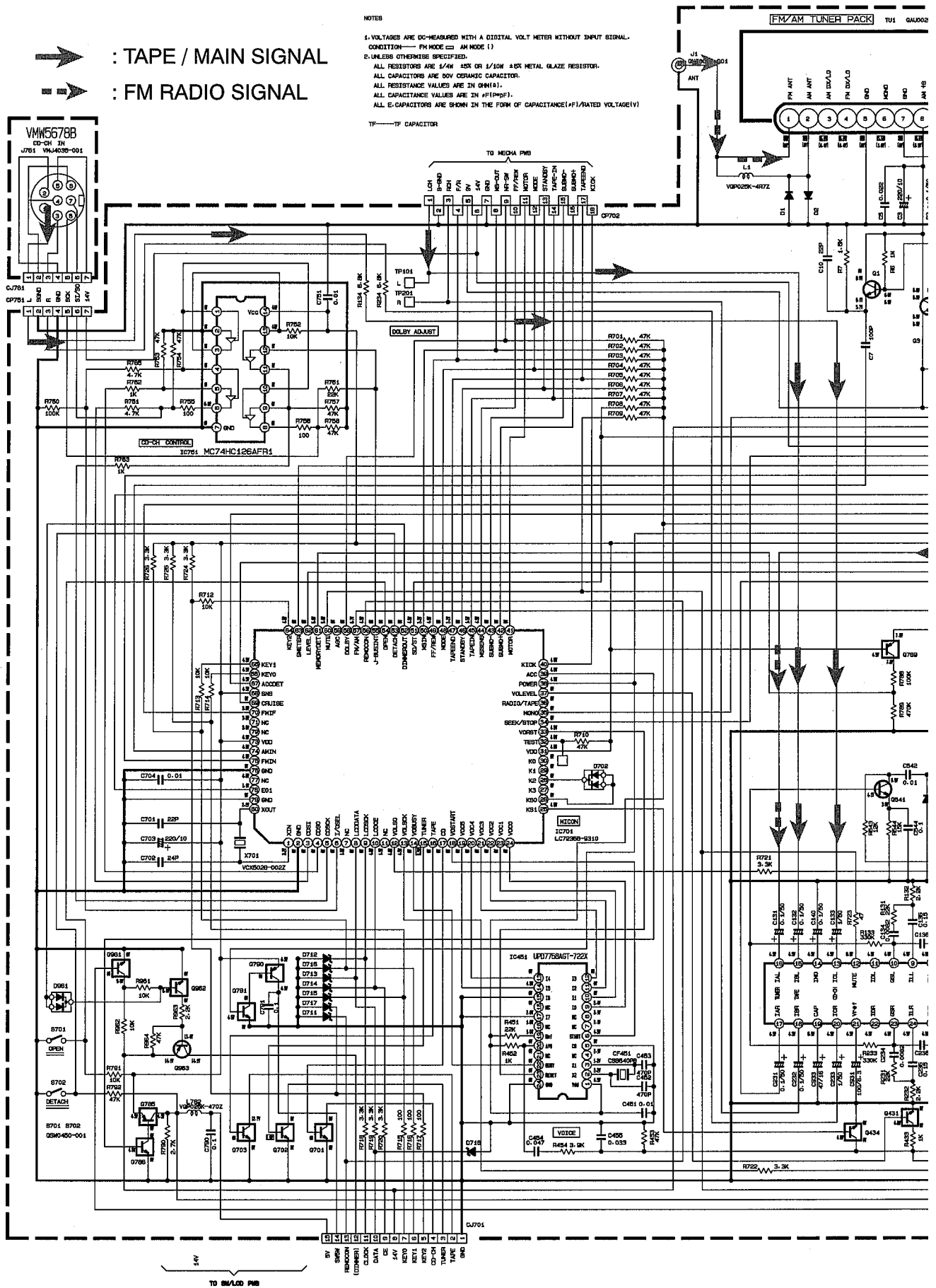
➔ : TAPE / MAIN SIGNAL

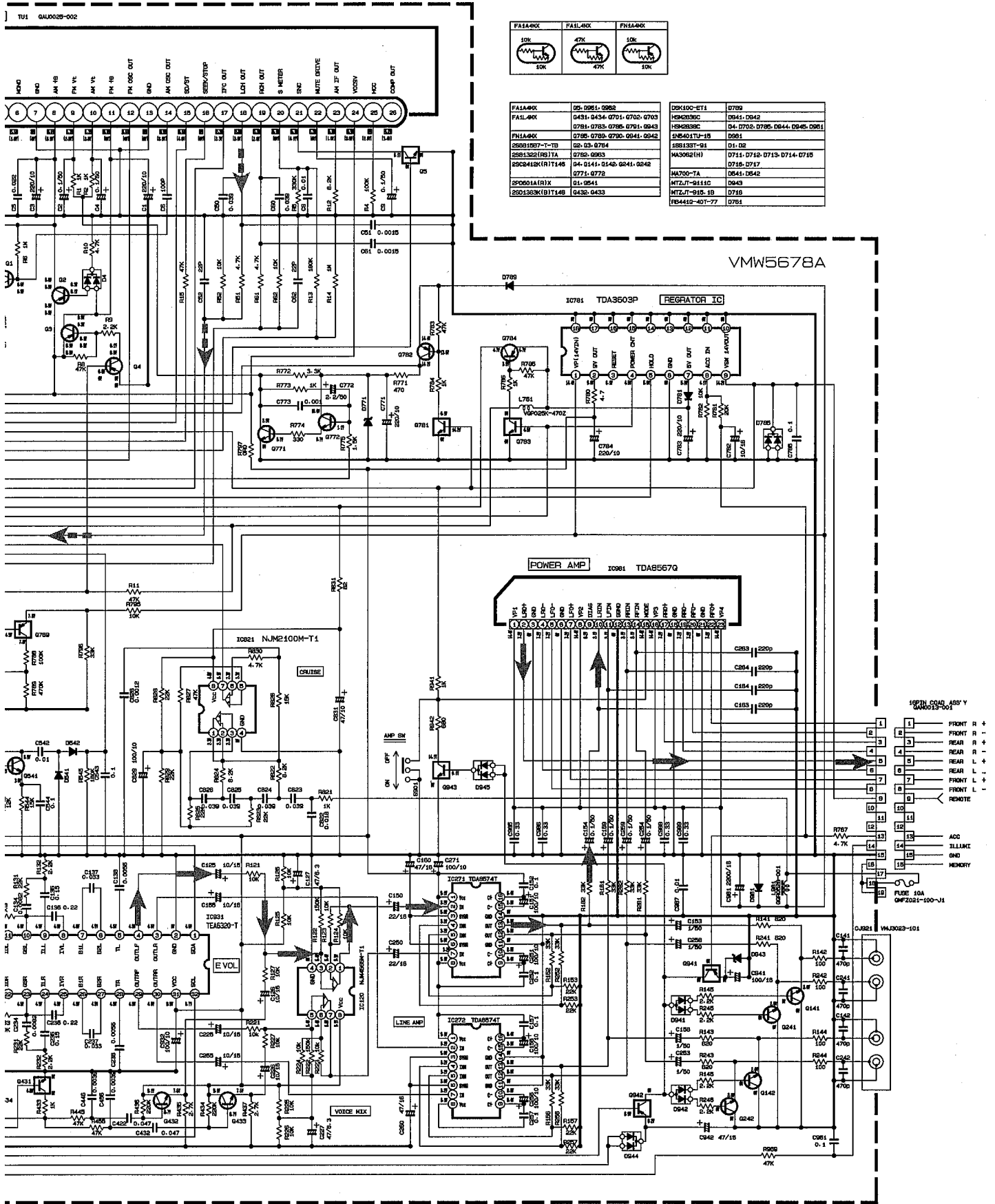
■ Reciever & Power Amplifier Circuit

→ : TAPE / MAIN SIGNAL
 → : FM RADIO SIGNAL

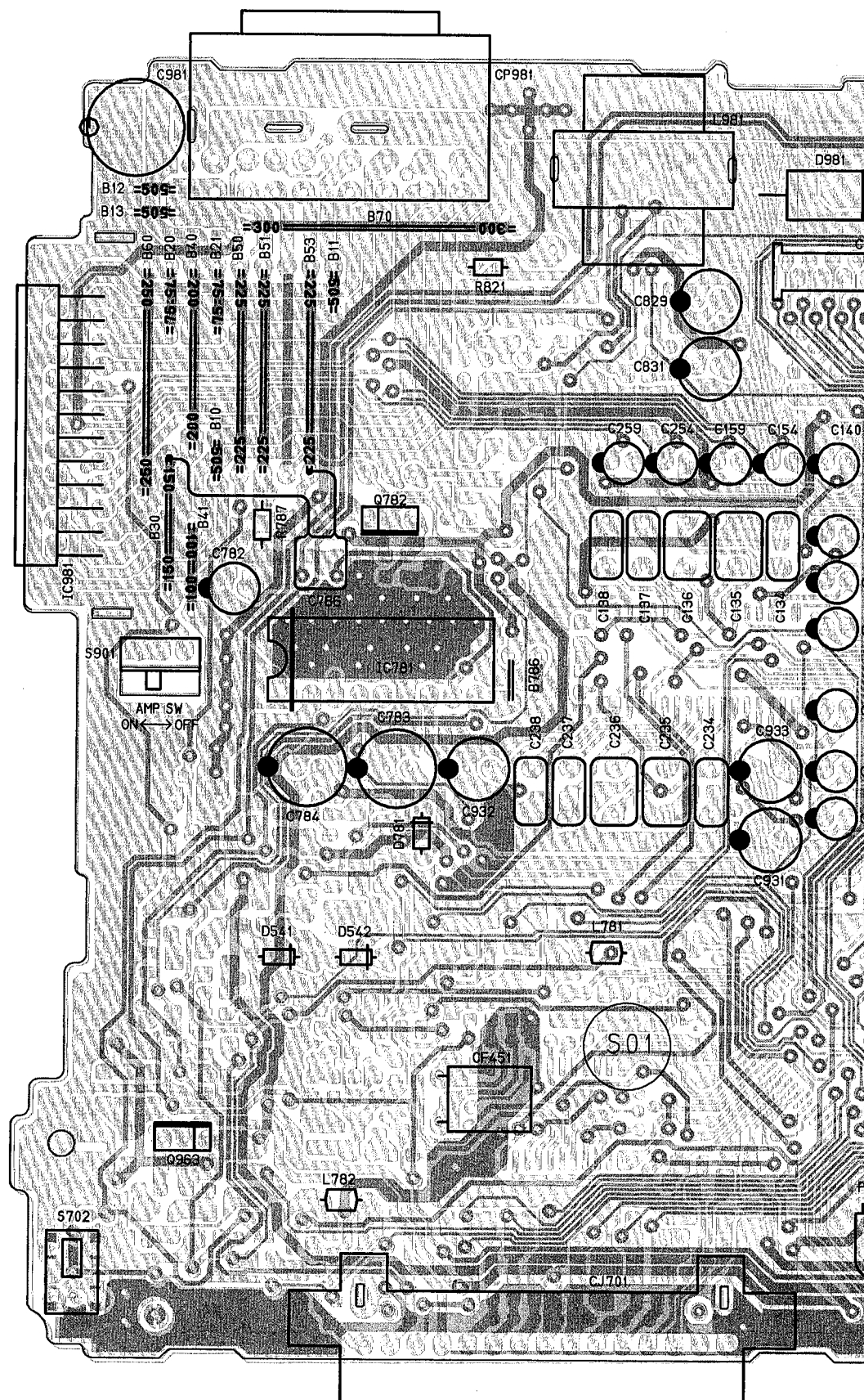
NOTES
 1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
 CONDITION—FM MODE □ AM MODE ()
 2. UNLESS OTHERWISE SPECIFIED,
 ALL RESISTORS ARE 1/4W 40K OR 1/10W 40K METAL GLAZE RESISTOR.
 ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHMS (Ω).
 ALL CAPACITANCE VALUES ARE IN PICO (pF).
 ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (pF)/RATED VOLTAGE (V)

TP—TP CAPACITOR



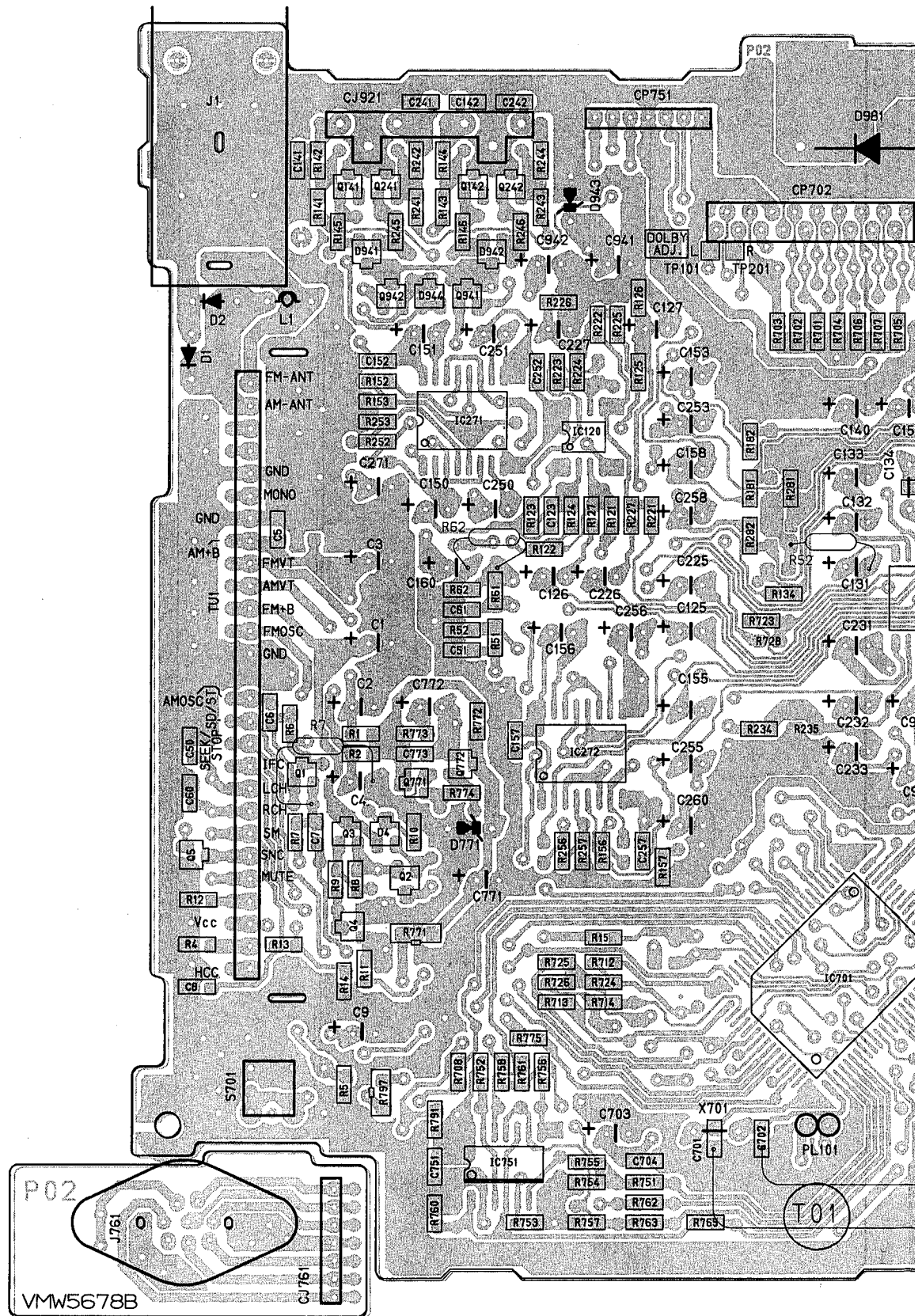


(Parts Side)

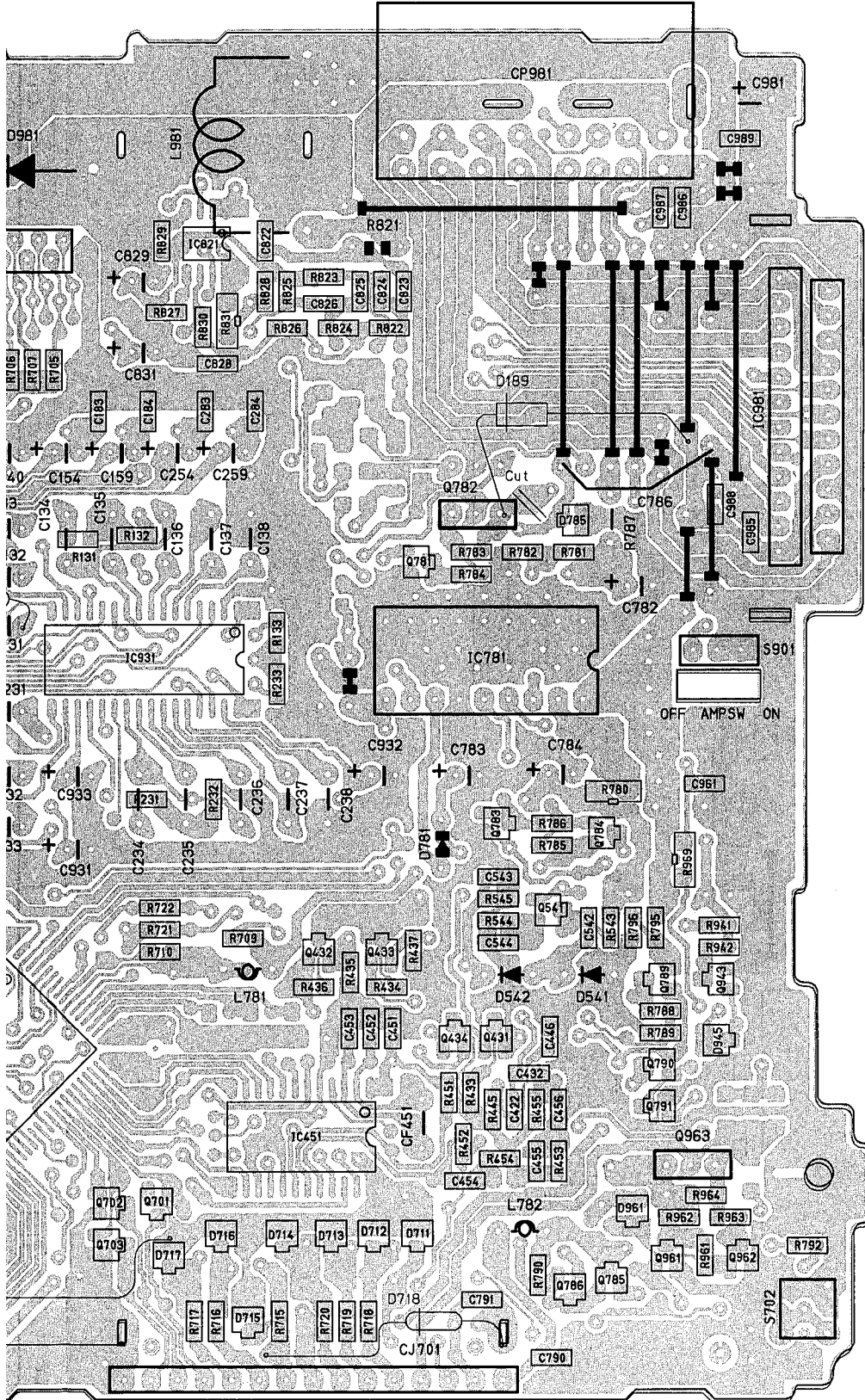


●Changer Jack Board

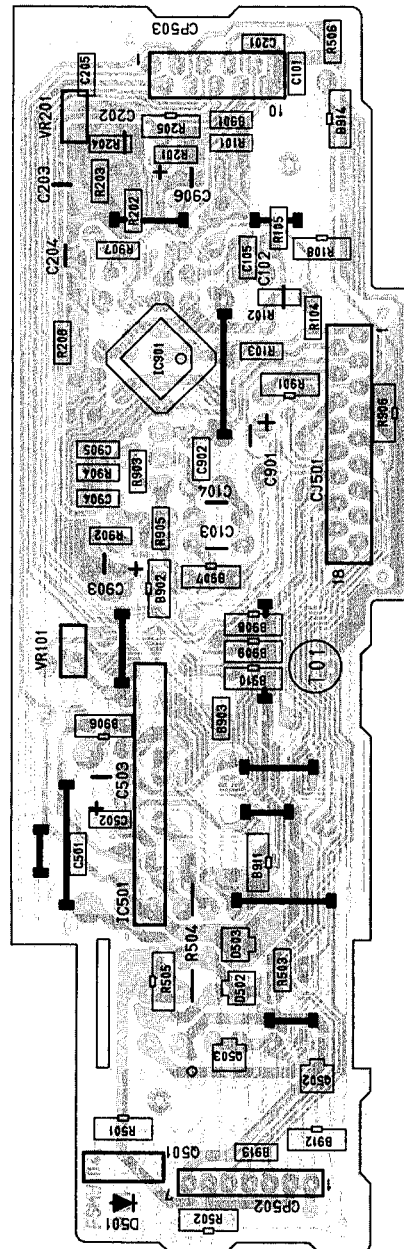
(Solder Side)



● Changer Jack Board

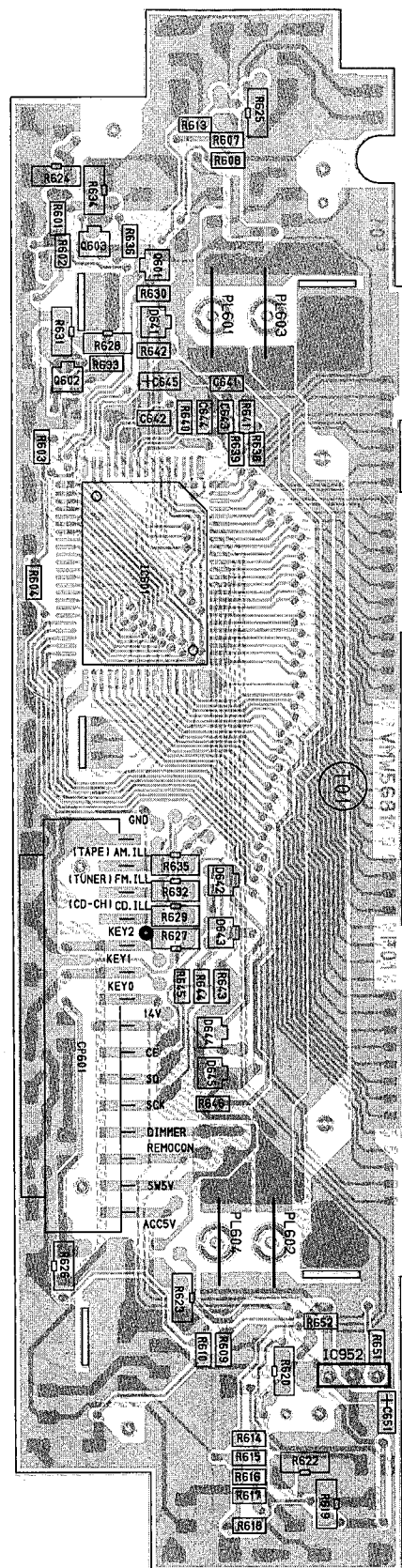


■ Head Amplifier & Mechanism Drive Board : Block No. 0 3



1

(Solder side)



Fig

C

PARTS LIST

[KS-RT626]

* All printed circuit boards and its assemblies are not available as service parts.

Area Suffix

U ----- Other Areas

- Contents -

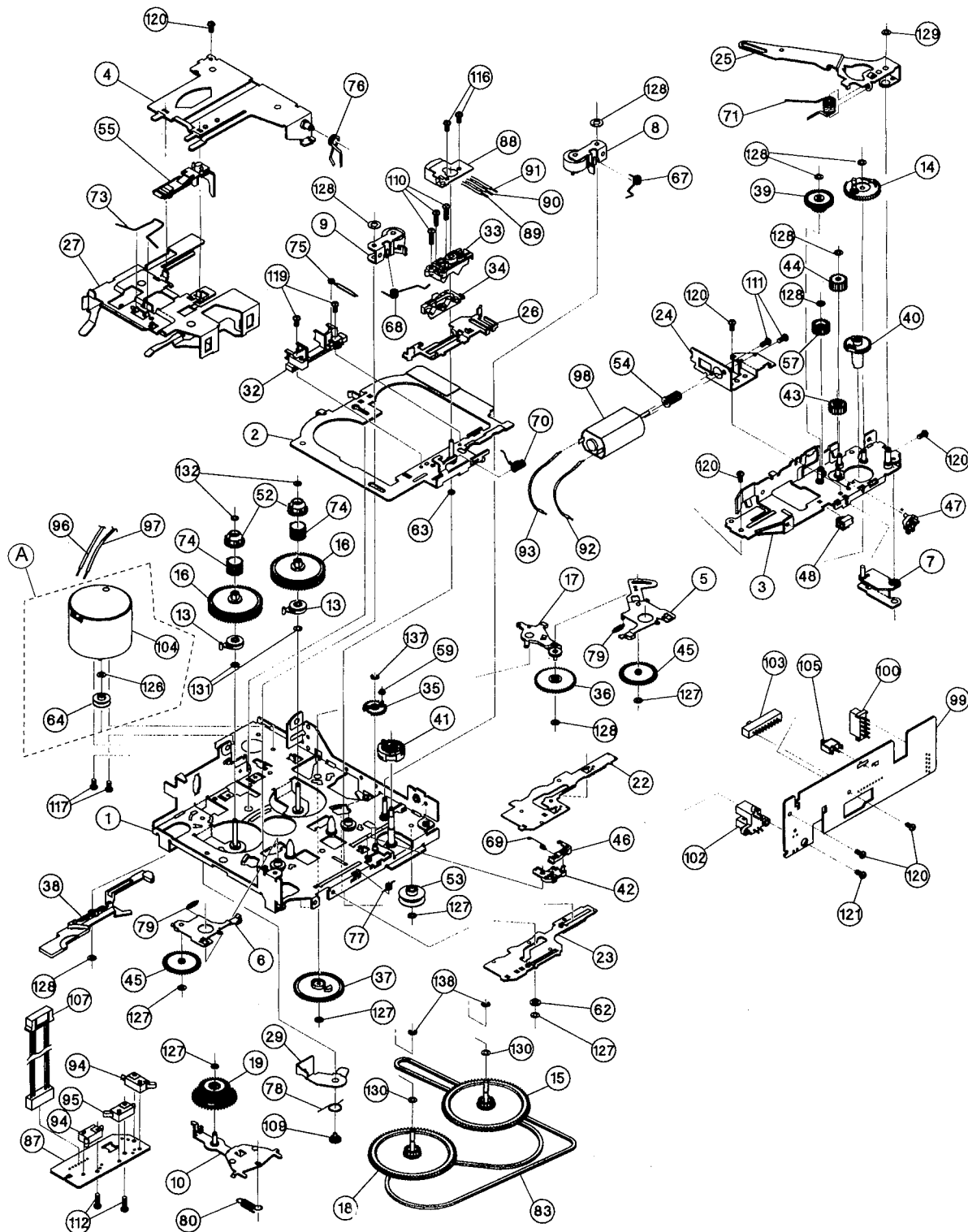
Exploded View of Cassette Mechanism and Parts List -----	4-2~3
Exploded View of General Assembly and Parts List -----	4-4~6
Electrical Parts List -----	4-7~11
Main Board -----	4-7~9
Key Switch Board -----	4-10
Mechanism Board -----	4-11
Packing Materials and Accessories List -----	4-12~13

Exploded View of Cassette Mechanism and Parts List

MODEL : CDS-522NJ

Block No.

M	2	M	M
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■ Cassette Mechanism Prts List

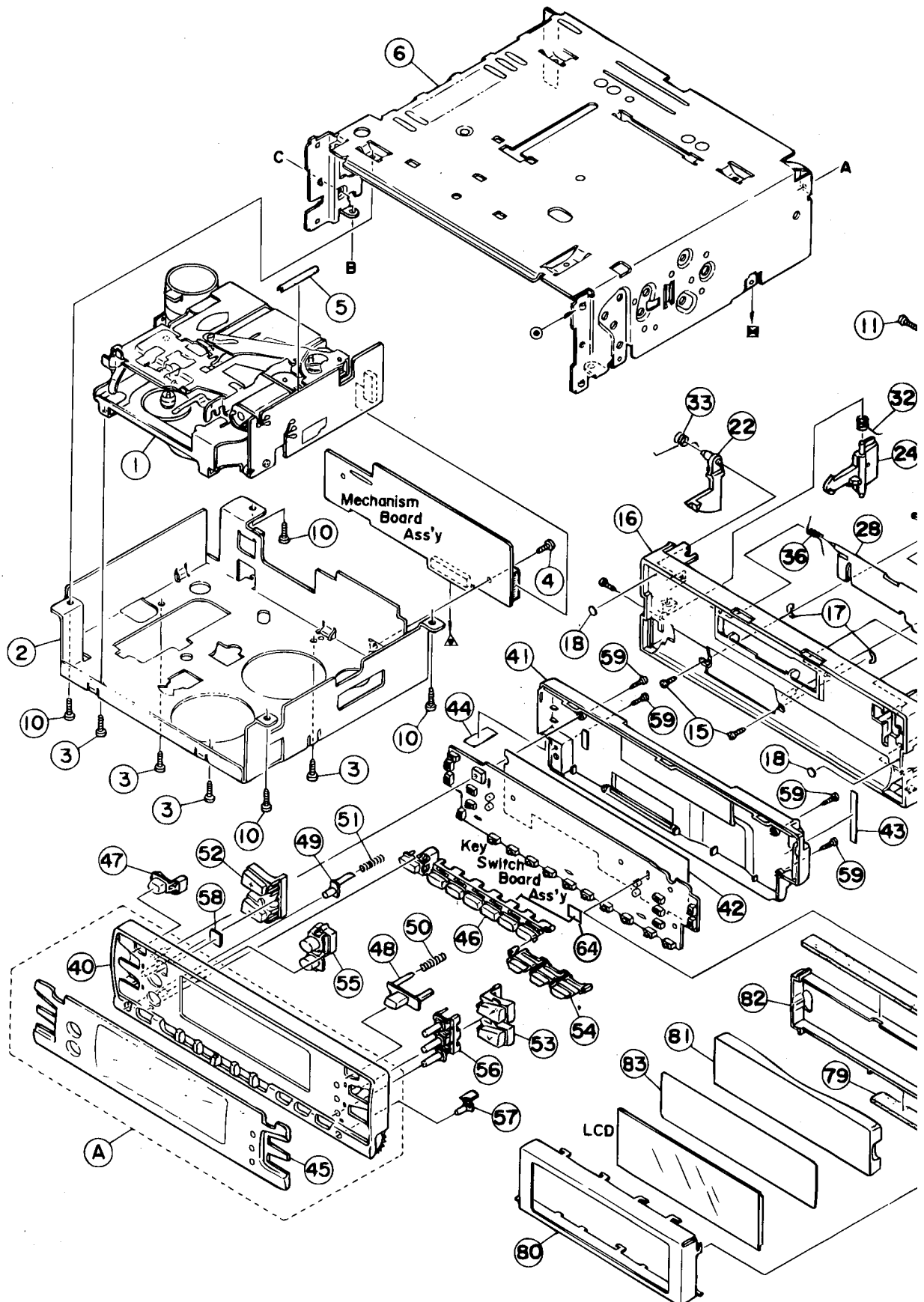
BLOCK NO. M2MM 111

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	100367057S-SA3	DC MOTOR ASS'Y	EG-520ED-3B	1		
	1	1-0522-6001-02S	CHASSIS ASS'Y		1		
	2	1-0522-6002S	HEAD PLATE ASSY		1		
	3	1-0522-6003-11S	SUB CHASSIS ASY		1		
	4	X-0522-1004S	HOLDER ARM ASSY		1		
	5	X-0522-1006S	T.U.ARM(F)ASS'Y		1		
	6	X-0522-1007S	T.U.ARM(R)ASS'Y		1		
	7	X-0522-1010S	SET ARM ASS'Y		1		
	8	X-0522-1019S	PINCH ARM(F)ASY		1		
	9	X-0522-1020S	PINCH ARM(R)ASY		1		
	10	X-0522-1022S	FR ARM ASS'Y		1		
	13	X-0522-2008S	DETECT ARM ASSY		2		
	14	X-0522-2010S	LOAD GEAR ASS'Y		1		
	15	X-0522-2016-2S	FLYWHEEL ASY(FJ		1		
	16	X-0522-2018S	REEL TABLE ASSY		2		
	17	X-0522-2020S	REDUCT.GEAR ARM		1		
	18	X-0522-2021-2S	FLYWHEEL ASY(CR)		1		
	19	X-0052-2001S	F.R. GEAR ASS'Y		1		
	22	1-0522-1008S	DIR.PLATE		1		
	23	1-0522-1009S	FF/REW PLATE		1		
	24	1-0522-1027S	MOTOR BRACKET		1		
	25	1-0522-1013S	LOAD ARM		1		
	26	1-0522-1014S	SHIFT CAM LINK		1		
	27	1-0522-1017-10S	CASSETTE HOLDER		1		
	29	1-0522-1016S	METAL DETECT LE		1		
	32	1-0522-2001S	TAPE GUIDE		1		
	33	1-0522-2002S	HEAD BRACKET		1		
	34	1-0522-2003S	HEAD SHIFT CAM		1		
	35	1-0522-2004-03S	SELECT GEAR		1		
	36	1-0522-2005S	REDUCTION GEAR		1		
	37	1-0522-2006S	DETECT GEAR		1		
	38	1-0522-2007S	DETECTOR		1		
	39	1-0522-2009S	WORM GEAR		1		
	40	1-0522-2011S	MODE GEAR		1		
	41	1-0522-2012S	MODE GEAR(2)		1		
	42	1-0522-2013S	GEAR LATCH		1		
	43	1-0522-2014S	IDLE GEAR(1)		1		
	44	1-0522-2015S	IDLE GEAR(2)		1		
	45	1-0522-2017S	TU GEAR		2		
	46	1-0522-2019S	RACHET		1		
	47	1-0522-2022S	SW ACTUATER		1		
	48	1-0522-2024S	PWB STAY		1		
	52	1-0052-2004S	REEL DRIVER		2		
	53	1-0052-2006S	IDLE PULLEY		1		
	54	1-0522-2023S	WORM		1		
	55	1-0052-2032S	CATCH(K)		1		
	57	1-0052-2041S	COUNTER GEAR		1		
	59	1-0522-3005S	SELECT GEAR COL		1		
	62	1-0052-3028S	H.B. ROLLER(L)		1		
	63	1-0052-3029S	H.B. ROLLER(S)		1		
	64	-----	MOTOR PULLEY		1		
	67	1-0522-4001S	PINCH ARM(F)SPG		1		
	68	1-0522-4002S	PINCH ARM(R)SPG		1		
	69	1-0522-4003S	GEAR LATCH SPG		1		

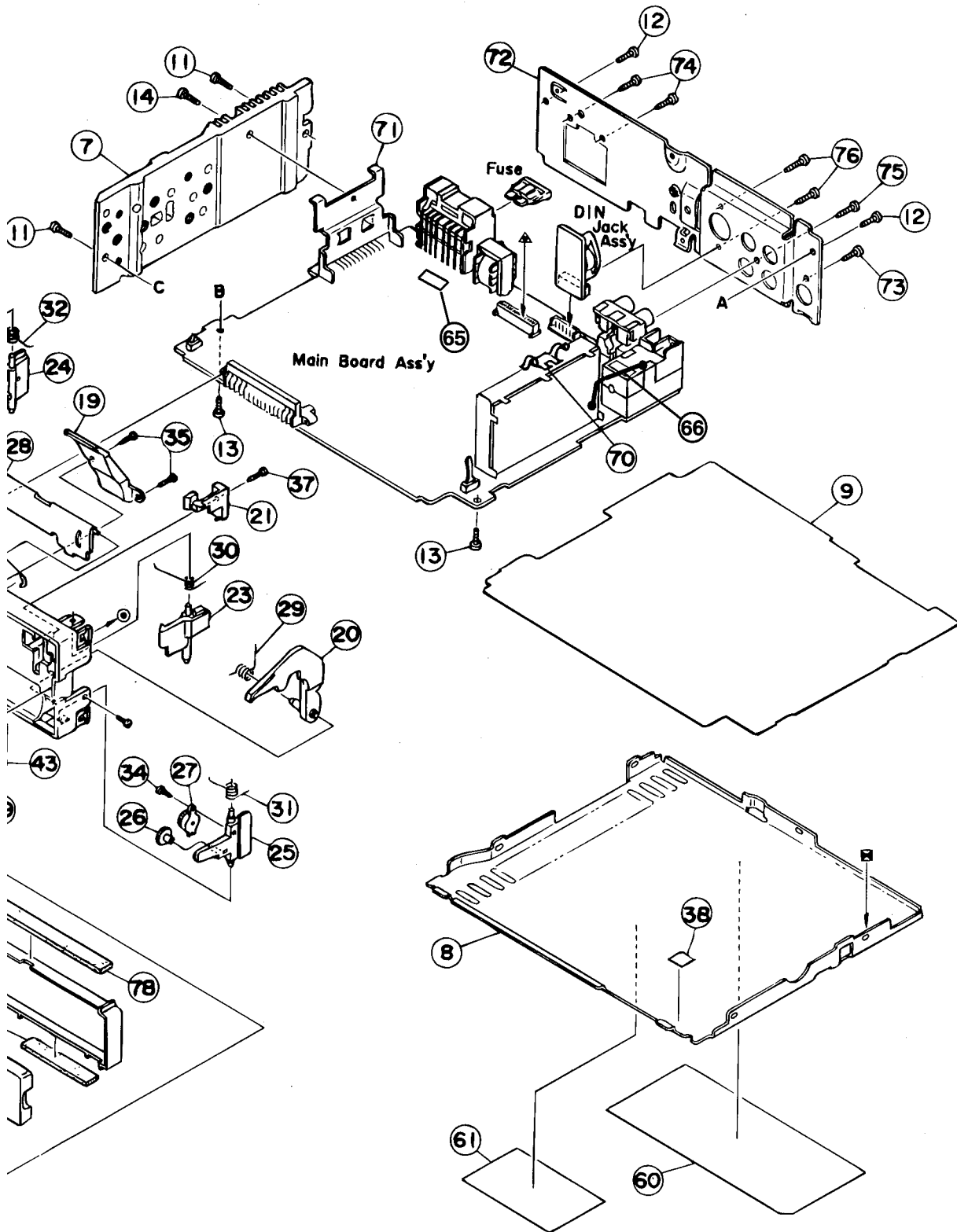
BLOCK NO. M2MM 1 1 1

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
70	1-0522-4004S	HEAD SPRING		1		
71	1-0522-4006S	LOAD ARM SPG		1		
73	1-0522-4008S	CATCH SPRING		1		
74	1-0522-4010S	REEL DRIVER SPG		2		
75	1-0522-4011S	DASH SPRING		1		
76	1-0522-4014S	HOLDER ARM SPG		1		
77	1-0522-4016S	HOLD SPRING		1		
78	1-0522-4009S	METAL DETECT SP		1		
79	1-0522-4017S	TU ARM SPRING		2		
80	1-0522-4015S	FR ARM SPRING		1		
83	1-0052-5022S	BELT		1		
87	1-0522-7002S	REEL PWB		1		
88	1-0522-7003S	2CH HEAD	P-7742-HG	1		
89	1-0522-7004S	HEAD WIRE(A)		1		
90	1-0522-7005S	HEAD WIRE(B)		1		
91	1-0522-7006S	HEAD WIRE(C)		1		
92	1-0522-7007-03S	SUB MOTOR WIRE	RED	1		
93	1-0522-7008-03S	SUB MOTOR WIRE	BLACK	1		
94	1-0522-7010S	LEAF SWITCH	MLS-2	2		
95	1-0522-7011S	LEAF SWITCH	MLS-4	1		
96	1-0522-7013S	MOTOR WIRE	RED	1		
97	1-0522-7014S	MOTOR WIRE	BLACK	1		
98	1-0522-7018S	SUB MOTOR	PPN13EB10C	1		
99	1-0522-7022S	HEAD PWB(JV)		1		
100	1-0522-7024S	CONNECTOR 10P	TKC-F10X-K1	1		
102	X-0052-7040S	PHOTO COUPLER		1		
103	1-0036-7007-1S	SLIDE SWITCH	SLD-32-710S	1		
104	-----	MOTOR ASS'Y	EG-520ED-3B	1		
105	1-0056-7011S	SWITCH	SW-112-5	1		
107	1-0052-7013S	JOINT WIRE (7P)		1		
109	1-0522-5002S	SPECIAL SCREW		1		
110	1-0522-5003S	AZIMUTH SCREW		3		
111	1-0052-5023S	MOTOR SCREW	M2X2.5	2		
112	1-0101-5006S	SCREW PLAIN	M1.7X7	2		
116	1-0522-5005S	SPECIAL SCREW(2		2		
117	2-1032-0022-C2S	MACHINE SCREW	M2X2.2	2		
119	1-0522-5006S	SPECIAL SCREW(3		2		
120	2-1332-0030-C1S	SCREW	M2X3	6		
121	2-1382-0050-C2S	PLAIN	M2X5	1		
126	-----	MYLAR WASHER		1		
127	2-1812-0030-D2S	POLY WASHER(S)	1.2X3X0.25	6		
128	2-1816-0032-D2S	POLY WASHER(S)	1.6X3.2X0.25	8		
129	2-1816-0032-52S	PSW-S	1.6X3.2X0.5	1		
130	2-1821-0032-D1S	PSW	2.1X3.2X0.25	2		
131	2-1821-0040-D1S	POLY WASHER	2.1X4X0.25	2		
132	1-0053-5005S	LMW-S	1.5X3.2X0.25	2		
137	2-1711-5040-16S	E RING	1.5	1		
138	2-1711-6032-96S	E RING	1.6X3.2X0.3	2		

Exploded View of General Assembly and Parts List



Block No. M 1 M M



■ General Assembly Prts List

BLOCK NO. M1MM111

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCKSRT626J-NPA	NOSE PIECE	NO.40,45	1		
	1	-----	CASSETTE MECHA		1		
	2	FSKM2003-003	MECHA BRACKET		1		
	3	SDSP2604Z	SCREW		4		
	4	SDST2604Z	SCREW		1		
	5	VYSA1R4-056	SPACER		1		
	6	FSJC1029-002	TOP CHASSIS		1		
	7	FSMH3001-002	HEAT SINK		1		
	8	FSKM3007-001	BOTTOM COVER		1		
	9	FSMA3004-002	INSULATOR		1		
	10	SDST2604Z	SCREW	CHASSIS+M.BKT	4		
	11	SDST2608Z	SCREW	CHASSIS+SIDE PA	2		
	12	SDST2606Z	SCREW	CHASSIS+REAR BK	2		
	13	SDST2606Z	SCREW	CHASSIS+MAIN PW	2		
	14	SDST2608Z	SCREW	SIDE PANEL+IC B	1		
	15	SDSF2006M	SCREW	F,CHASSIS+CONEC	2		
	16	VJG1447-002	FRONT CHASSIS		1		
	17	VYTT708-001	SHEET		2		
	18	VYSS2R4-016	SPACER		2		
	19	VJK3707-001	LIGHT LENS		1		
	20	VKS3792-002	OPEN LEVER		1		
	21	VKS3797-002	LOCK LEVER(O.L)		1		
	22	VKS3798-001	RELEASE LEVER		1		
	23	VKS3793-001	LOCK LEVER(TOP)		1		
	24	VKS3794-003	LOCK LEVER(L)		1		
	25	VKS3795-002	LOCK LEVER(R)		1		
	26	VKS5563-001	GEAR		1		
	27	VKZ4786-002	OIL DAMPER		1		
	28	FSJC4003-012	CASSETTE LID		1		
	29	VKW5260-003	T.SPRING	OPEN LEVER	1		
	30	VKW5261-001	T.SPRING	L.LEVER(TOP)	1		
	31	VKW5262-001	T.SPRING	L.LEVER(R)	1		
	32	VKW5263-002	T.SPRING	L.LEVER(L)	1		
	33	VKW5264-004	T.SPRING	RELEASE LEVER	1		
	34	SDSF2006M	SCREW	DAMPER+L.LEVER(	1		
	35	SPSN1745N	MINI SCREW	L.LENS+F.CHASSI	2		
	36	VKW4947-002	DOOR SPRING	CASSETTE LID	1		
	37	VKZ4777-001	MINI SCREW	LOCK LEVER	1		
	38	VYSR103-048	SPACER		1		
	40	VJG1448-003	FRONT PANEL		1		
	41	VJG1449-001	REAR COVER		1		
	42	VMA4716-001	SHIELD		1		
	43	VYSS1R4-047	SPACER		1		
	44	VYSS1R1-111	SPACER		1		
	45	VJK2217-024	FINDER		1		
	46	FSXP2022-001	PRESET BUTTON	1/2/3/4/5/6	1		
	47	VXP3824-001	POWER BUTTON		1		
	48	VXP3825-001	EJECT BUTTON		1		
	49	VXP3826-001	DETACH BUTTON		1		
	50	VKW3001-330	COMP.SPRING	FOR EJECT BTN	1		
	51	VKW3001-330	COMP.SPRING	FOR DETACH BTN	1		
	52	FSXP3036-001	+/- BUTTON		1		
	53	FSXP3037-001	UP DOWN BUTTON		1		
	54	FSXP2023-003	D.FUNC BUTTON		1		
	55	FSXP3038-001	SND/C. BUTTON		1		

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
56	FSXP3039-001	PUSH BUTTON		1		
57	FSXP4001-001	DISPLAY BUTTON		1		
58	VKS5578-001	REMOTE LENS		1		
59	VKZ4777-001	MINI SCREW	FRONT+REAR	4		
60	VYN3765-S006	NAME PLATE		1		
61	VND5132-001	AMP SW CAUTION		1		
64	VYTT473-007	SPACER		1		
65	VYSA1R3-035	SPACER		1		
66	QWE350-06A1A1	WIRE		1		
70	VMA4652-001	EARTH PLATE		1		
71	FSKL4013-002	IC BRACKET		1		
72	FSKM3008-003	REAR BRACKET		1		
73	SDST2606Z	SCREW	REAR BKT+ANT JA	1		
74	SDSP2606Z	SCREW	REAR BKT+15P CN	2		
75	SDSF3006Z	SCREW	REAR BKT+PIN JA	1		
76	SDSF2608Z	SCREW	REAR BKT+CD IN	2		
78	VMZ0152-001	LCD CONNECTOR		1		
79	VMZ0153-001	LCD CONNECTOR		1		
80	VKM3912-002	LCD CASE		1		
81	VJK3708-002	LCD LENS		1		
82	VKS2283-001	LENS CASE		1		
83	VYTT702-001	LCD FILTER		1		
FUSE	QMFZ021-100-J1	FUSE		1		
LCD	VGL1215-001	LCD		1		

Electrical Parts List

Main board

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 1	QER41AM-227N	E-CAPACITOR	220MF 20% 10V	
C 2	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 3	QER41AM-227N	E-CAPACITOR	220MF 20% 10V	
C 4	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 5	NCB21HK-223AY	C-CAPACITOR	.022MF 10% 50V	
C 6	NCB21HK-103AY	C-CAPACITOR	100PF +50:-10% 16V	
C 7	NCB21HK-103AY	C-CAPACITOR	100PF +50:-10% 16V	
C 8	NCB21HK-103AY	C-CAPACITOR	.010MF 10% 25V	
C 9	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 10	NCB21HK-220AY	C-CAPACITOR	22PF +50:-10% 16V	
C 50	NCB21HK-392AY	C-CAPACITOR	3900PF 10% 25V	
C 52	NCB21HK-392AY	C-CAPACITOR	22PF +50:-10% 16V	
C 60	NCB21HK-392AY	C-CAPACITOR	3900PF 10% 25V	
C 62	NCB21HK-220AY	C-CAPACITOR	22PF +50:-10% 16V	
C 125	QER41CM-106	E-CAPACITOR	10MF 20% 16V	
C 126	QER41CM-106	E-CAPACITOR	10MF 20% 16V	
C 127	QERF0JM-476Z	E-CAPACITOR	47MF 20% 6.3V	
C 131	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 132	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 133	QER41HM-105	E-CAPACITOR	1.0MF 20% 50V	
C 134	QFLA1HJ-822ZM	M-CAPACITOR	8200PF 5% 50V	
C 135	QFV11HJ-154AZM	TF CAPACITOR	.15MF 5% 50V	
C 136	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
C 137	QFV41HJ-333	TF CAPACITOR	.033MF 5% 50V	
C 138	QFLA1HJ-562ZM	M-CAPACITOR	5600PF 5% 50V	
C 140	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 141	NCB21HK-471AY	C-CAPACITOR	470PF 10% 50V	
C 142	NCB21HK-471AY	C-CAPACITOR	470PF 10% 50V	
C 150	QER41CM-226	E-CAPACITOR	22MF 20% 16V	
C 151	QER41AM-107	E-CAPACITOR	100MF 20% 10V	
C 152	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 153	QER41HM-105	E-CAPACITOR	1.0MF 20% 50V	
C 154	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 155	QER41CM-106	E-CAPACITOR	10MF 20% 16V	
C 156	QER41AM-107	E-CAPACITOR	100MF 20% 10V	
C 157	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 158	QER41HM-105	E-CAPACITOR	1.0MF 20% 50V	
C 159	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 160	QER41CM-476M	E-CAPACITOR	47MF 20% 16V	
C 183	NCB21HK-221AY	C-CAPACITOR	220PF 5% 50V	
C 184	NCB21HK-221AY	C-CAPACITOR	220PF 5% 50V	
C 225	QER41CM-106	E-CAPACITOR	10MF 20% 16V	
C 226	QERF0JM-476Z	E-CAPACITOR	47MF 20% 6.3V	
C 231	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 232	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 233	QER41HM-105	E-CAPACITOR	1.0MF 20% 50V	
C 234	QFLA1HJ-822ZM	M-CAPACITOR	8200PF 5% 50V	
C 235	QFV11HJ-154AZM	TF CAPACITOR	.15MF 5% 50V	
C 236	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V	
C 237	QFV41HJ-333	TF CAPACITOR	.033MF 5% 50V	
C 238	QFLA1HJ-562ZM	M-CAPACITOR	5600PF 5% 50V	
C 241	NCB21HK-471AY	C-CAPACITOR	470PF 10% 50V	
C 242	NCB21HK-471AY	C-CAPACITOR	470PF 10% 50V	
C 250	QER41CM-226	E-CAPACITOR	22MF 20% 16V	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 251	QER41AM-107	E-CAPACITOR	100MF 20% 10V	
C 252	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 253	QER41HM-105	E-CAPACITOR	1.0MF 20% 50V	
C 254	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 255	QER41CM-106	E-CAPACITOR	10MF 20% 16V	
C 256	QER41AM-107	E-CAPACITOR	100MF 20% 10V	
C 257	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 258	QER41HM-105	E-CAPACITOR	1.0MF 20% 50V	
C 259	QERF1HM-104ZN	E-CAPACITOR	.10MF 20% 50V	
C 260	QER41CM-476M	E-CAPACITOR	47MF 20% 16V	
C 271	QER41AM-107	E-CAPACITOR	100MF 20% 10V	
C 283	NCB21HK-221AY	C-CAPACITOR	220PF 5% 50V	
C 284	NCB21HK-221AY	C-CAPACITOR	220PF 5% 50V	
C 422	NCB21HK-473AY	C-CAPACITOR	.047MF 10% 25V	
C 432	NCB21HK-473AY	C-CAPACITOR	.047MF 10% 25V	
C 446	NCB21HK-392AY	C-CAPACITOR	3900PF 10% 50V	
C 451	NCB21HK-103AY	C-CAPACITOR	.010MF 10% 25V	
C 452	NCB21HK-471AY	C-CAPACITOR	470PF 5% 50V	
C 453	NCB21HK-471AY	C-CAPACITOR	470PF 5% 50V	
C 454	NCB21HK-473AY	C-CAPACITOR	.047MF 10% 25V	
C 455	NCB21HK-333AY	C-CAPACITOR	.033MF 10% 25V	
C 456	NCB21HK-392AY	C-CAPACITOR	3900PF 10% 50V	
C 542	NCB21HK-103AY	C-CAPACITOR	.010MF 10% 25V	
C 543	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 544	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 701	NCB21HK-220AY	C-CAPACITOR	22PF +50:-10% 16V	
C 702	NCB21HK-240	C-CAPACITOR	24PF +50:-10% 16V	
C 703	QER41AM-227N	E-CAPACITOR	220MF 20% 10V	
C 704	NCB21HK-103AY	C-CAPACITOR	.010MF 10% 50V	
C 705	QER41AM-227N	E-CAPACITOR	220MF 20% 10V	
C 711	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 712	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 713	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 751	NCB21HK-103AY	C-CAPACITOR	.010MF 10% 50V	
C 771	QER41AM-227N	E-CAPACITOR	220MF 20% 10V	
C 772	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V	
C 773	NCB21HK-102AY	C-CAPACITOR	1000PF 10% 50V	
C 782	QER41CM-106	E-CAPACITOR	10MF 20% 16V	
C 783	QER41AM-227N	E-CAPACITOR	220MF 20% 10V	
C 784	QER41AM-227N	E-CAPACITOR	220MF 20% 10V	
C 786	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 790	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 791	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 795	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 796	NCB21HK-104	C-CAPACITOR	.10MF 10% 25V	
C 797	QERF1CM-107ZM	E-CAPACITOR	100MF 20% 16V	
C 798	QER41AM-227N	E-CAPACITOR	220MF 20% 10V	
C 822	NCB21HK-183AY	C-CAPACITOR	.018MF 10% 50V	
C 823	NCB21HK-393AY	C-CAPACITOR	.039MF 10% 25V	
C 824	NCB21HK-393AY	C-CAPACITOR	.039MF 10% 25V	
C 825	NCB21HK-393AY	C-CAPACITOR	.039MF 10% 25V	
C 826	NCB21HK-393AY	C-CAPACITOR	.039MF 10% 25V	
C 828	NCB21HK-122AY	C-CAPACITOR	1200PF 10% 50V	
C 829	QER41AM-107	E-CAPACITOR	100MF 20% 10V	
C 831	QERF1AM-476Z	E-CAPACITOR	47MF 20% 10V	

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 931	QER40JM-107	E-CAPACITOR	100MF 20% 6.3V		
C 932	QER41AM-107	E-CAPACITOR	100MF 20% 10V		
C 933	QER41CM-476M	E-CAPACITOR	47MF 20% 16V		
C 941	QERF1CM-1072M	E-CAPACITOR	100MF 20% 16V		
C 942	QER41CM-476M	E-CAPACITOR	47MF 20% 16V		
C 961	NCB21HK-104	C-CAPACITOR	10MF 10% 25V		
C 981	QEZ0337-228	E-CAPACITOR	2200MF		
C 985	NCB21CK-334AY	C-CAPACITOR	.33MF 10% 16V		
C 986	NCB21CK-334AY	C-CAPACITOR	.33MF 10% 16V		
C 987	NCB21HK-103AY	C-CAPACITOR	.010MF 10% 25V		
C 988	NCB21CK-334AY	C-CAPACITOR	.33MF 10% 16V		
C 989	NCB21CK-334AY	C-CAPACITOR	.33MF 10% 16V		
CF451	CSB640PBL	CERA LOCK			
CJ701	QNZ0007-001	CAR CONNECTOR			
CJ761	VMC0136-007	CONNECTOR			
CJ921	VMJ3023-101	PIN JACK			
CN 1	MA-Y-2-09-EL-02	CONN.WIRE ASSY			
CP702	QGB124J1-18S	CONNECTOR			
CP751	QGB2022J1-07	CONNECTOR			
CP981	QNZ0002-001	16P CONNECTOR			
D 1	1SS133T-91	SI DIODE			
D 2	1SS133T-91	SI DIODE			
D 4	HSM2838C	DIODE			
D 541	MA700	ZENER DIODE			
D 542	MA700	ZENER DIODE			
D 702	HSM2838C	DIODE			
D 711	MA3062(H)	ZENER DIODE			
D 712	MA3062(H)	ZENER DIODE			
D 713	MA3062(H)	ZENER DIODE			
D 714	MA3062(H)	ZENER DIODE			
D 715	MA3062(H)	ZENER DIODE			
D 716	MA3062(H)	ZENER DIODE			
D 717	MA3062(H)	ZENER DIODE			
D 718	MTZJT-915.1B	ZENER DIODE			
D 771	MTZJT-9110C	ZENER DIODE			
D 781	RB4410-40T-77	S-B.DIODE			
D 785	HSM2838C	DIODE			
D 786	DSK10C-E	DIODE			
D 789	DSK10C-E	DIODE			
D 941	HSM2836C	DIODE			
D 942	HSM2836C	DIODE			
D 943	MTZJT-9111C	ZENER DIODE			
D 944	HSM2838C	DIODE			
D 945	HSM2838C	DIODE			
D 961	HSM2838C	DIODE			
D 981	1N5401TU-15	DIODE			
IC120	NJM4565M	IC			
IC271	TDA8574T-T	IC			
IC272	TDA8574T-T	IC			
IC451	UPD7758AGT-722X	IC			
IC701	LC72366-9341	IC			
IC751	MC74HC126AF-W	IC			
IC781	TDA3603P	IC			
IC782	UPC78M12AHF	IC			
IC821	NJM2100MW	IC			

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
IC931	TEA6320T	IC			
IC981	TDA8567Q	IC			
J 1	QNZ0009-001	CAR ANT JACK			
J 761	QND0023-001	MINI DIN JACK			
L 1	VQP025K-4R7Y	INDUCTOR			
L 781	VQP025K-470Y	INDUCTOR			
L 782	VQP025K-470Y	INDUCTOR			
L 981	QQR052B-001	CHOKO COIL			
PL101	VG70001-042	LAMP			
Q 1	2SC2412KK1	TRANSISTOR			
Q 2	2S8815B7-T-HL	TRANSISTOR			
Q 3	2S8815B7-T-HL	TRANSISTOR			
Q 4	2SC2412KK1	TRANSISTOR			
Q 5	FA1A4M	TRANSISTOR			
Q 141	2SC2412KK1	TRANSISTOR			
Q 142	2SC2412KK1	TRANSISTOR			
Q 241	2SC2412KK1	TRANSISTOR			
Q 242	2SC2412KK1	TRANSISTOR			
Q 431	FA1L4M	TRANSISTOR			
Q 432	2SD1383K(B)T146	TRANSISTOR			
Q 433	2SD1383K(B)T146	TRANSISTOR			
Q 434	FA1L4M	TRANSISTOR			
Q 541	2SD601A(R)	TRANSISTOR			
Q 701	FA1L4M	TRANSISTOR			
Q 702	FA1L4M	TRANSISTOR			
Q 703	FA1L4M	TRANSISTOR			
Q 771	2SC2412KK1	TRANSISTOR			
Q 772	2SC2412KK1	TRANSISTOR			
Q 781	FA1L4M	TRANSISTOR			
Q 782	2SB1322(RS)	TRANSISTOR			
Q 783	FA1L4M	TRANSISTOR			
Q 784	2SB815B7-T-HL	TRANSISTOR			
Q 785	FN1A4M-X	TRANSISTOR			
Q 786	FA1L4M	TRANSISTOR			
Q 789	FN1A4M-X	TRANSISTOR			
Q 790	FN1A4M-X	TRANSISTOR			
Q 791	FA1L4M	TRANSISTOR			
Q 941	FN1A4M-X	TRANSISTOR			
Q 942	FN1A4M-X	TRANSISTOR			
Q 943	FA1L4M	TRANSISTOR			
Q 961	FA1A4M	TRANSISTOR			
Q 962	FA1A4M	TRANSISTOR			
Q 963	2SB1322(RS)	TRANSISTOR			
R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W		
R 2	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W		
R 3	NRSA02J-560NY	MG RESISTOR	56 5% 1/10W		
R 4	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W		
R 5	NRSA02J-334NY	RESISTOR	330K 5% 1/10W		
R 6	NRSA02J-105NY	MG RESISTOR	1.0M 5% 1/10W		
R 7	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W		
R 8	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W		
R 9	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		
R 10	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W		
R 11	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W		
R 12	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W		

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 13	NRSA02J-184NY	MG RESISTOR	180K 5% 1/10W	
R 14	NRSA02J-105NY	MG RESISTOR	1.0M 5% 1/10W	
R 15	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 51	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 52	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 61	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 62	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 121	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 122	NRSA02J-154NY	RESISTOR	150K 5% 1/10W	
R 123	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 124	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 125	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 126	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 127	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 131	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 132	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 133	NRSA02J-334NY	RESISTOR	330K 5% 1/10W	
R 134	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R 141	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
R 142	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 143	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
R 144	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 145	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 146	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 152	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 153	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 156	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 157	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 181	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 182	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 221	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 222	NRSA02J-154NY	RESISTOR	150K 5% 1/10W	
R 223	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 224	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 225	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 226	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 227	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 231	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 232	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 233	NRSA02J-334NY	RESISTOR	330K 5% 1/10W	
R 234	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R 241	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
R 242	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 243	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
R 244	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 245	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 246	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 252	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 253	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 256	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 257	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 281	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 282	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 433	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 434	NRSA02J-224NY	RESISTOR	220K 5% 1/10W	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 435	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R 436	NRSA02J-224NY	RESISTOR	220K 5% 1/10W	
R 437	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R 445	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 450	NRS181J-100NY	MG RESISTOR	10 5% 1/8W	
R 451	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 452	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 453	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 454	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 455	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 543	NRSA02J-123NY	RESISTOR	12K 5% 1/10W	
R 544	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 545	NRSA02J-184NY	MG RESISTOR	180K 5% 1/10W	
R 701	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 702	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 703	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 704	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 705	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 706	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 707	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 708	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 709	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 710	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 712	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 713	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 714	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 715	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 716	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 717	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 718	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 719	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 720	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 721	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 722	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 723	NRSA02J-470NYM	MG RESISTOR	47 5% 1/10W	
R 724	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 725	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 726	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 731	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 732	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 733	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 734	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 735	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 736	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R 737	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 738	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 740	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 741	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 762	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 763	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 765	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 771	NRS181J-471NY	MG RESISTOR	470 5% 1/8W	
R 772	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 773	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 774	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	

● LCD Driver & Operation Switch board

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 641	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 642	NCT21CH-221AY	C CAPACITOR	220PF +50:-10% 16V	
	C 643	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 644	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 645	ECST01Y-475R	TS E CAPACITOR		
	C 651	ECST01Y-475R	TS E CAPACITOR		
	CP701	QNZ0006-001	CAR CONNECTOR		
	D 601	SML-010LT187	LED		
	D 602	SML-010PT187	LED		
	D 603	SML-010PT187	LED		
	D 606	SML-010PT187	LED		
	D 607	SML-010PT187	LED		
	D 608	SML-010PT187	LED		
	D 610	SML-010PT187	LED		
	D 611	SML-010PT187	LED		
	D 612	SML-010PT187	LED		
	D 613	SML-010PT187	LED		
	D 614	SML-010PT187	LED		
	D 615	SML-010PT187	LED		
	D 616	SML-010PT187	LED		
	D 617	SML-010PT187	LED		
	D 618	SML-010PT187	LED		
	D 619	SML-010PT187	LED		
	D 620	SML-010PT187	LED		
	D 621	SML-010PT187	LED		
	D 622	SML-010PT187	LED		
	D 624	SML-020MV	LED		
	D 625	SML-020MV	LED		
	D 626	SML-020MV	LED		
	D 641	MA152WK-X	SI DIODE		
	D 642	MA152WA-TX	DIODE		
	D 643	MA152WK-X	SI DIODE		
	D 644	MA152WA-TX	DIODE		
	D 645	MA152WK-X	SI DIODE		
	IC601	LC75873NE	IC		
	IC602	RPM6958-V4	RM.RECEIVER		
	PL601	QLL0012-001	LAMP		
	PL602	QLL0012-001	LAMP		
	PL603	QLL0012-001	LAMP		
	PL604	QLL0012-001	LAMP		
	Q 601	2SB815B7-T-HL	TRANSISTOR		
	Q 602	2SB815B7-T-HL	TRANSISTOR		
	Q 603	2SB815B7-T-HL	TRANSISTOR		
	R 601	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
	R 602	NRSA02J-561NY	RESISTOR	560 5% 1/10W	
	R 603	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 604	NRSA02J-391NY	MG RESISTOR	390 5% 1/10W	
	R 605	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 606	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R 607	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
	R 608	NRSA02J-561NY	RESISTOR	560 5% 1/10W	
	R 609	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
	R 610	NRSA02J-391NY	MG RESISTOR	390 5% 1/10W	
	R 611	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 612	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	

BLOCK NO. 04

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 775	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 780	NRS181J-477NY	MG RESISTOR	4.7 5% 1/8W	
	R 781	NRSA02J-203NY	MG RESISTOR	20K 5% 1/10W	
	R 782	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 783	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 784	NRSA02J-103NY	MG RESISTOR	1.0K 5% 1/10W	
	R 785	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 786	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 787	QRD14DJ-472X	CARBON RESISTOR	4.7K 1/1W	
	R 788	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 789	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
	R 790	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R 791	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 792	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 795	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 796	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 797	NRS181J-ORONY	MG RESISTOR	5% 1/8W	
	R 821	QRD141J-102S	CARBON RESISTOR	1.0K 1/1W	
	R 822	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R 823	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 824	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R 825	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 826	NRSA02J-133NY	MG RESISTOR	15K 5% 1/10W	
	R 827	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 828	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 829	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 830	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 831	NRS181J-820NY	MG RESISTOR	82 5% 1/8W	
	R 941	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 942	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
	R 961	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 962	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 963	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 964	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 969	NRS181J-473NY	MG RESISTOR	47K 5% 1/8W	
	S 701	QSW0450-002	DETECT SWITCH		
	S 702	QSW0451-001	DETECT SWITCH		
	S 901	GSS1201-024L	SLIDE SWITCH		
	TU 1	GAU0025-002	TUNER		
	X 701	VX5026-001Z	CRYSTAL		

● Head amplifier & Driver board

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 101	NCB21HK-471AY	C CAPACITOR	470PF 10% 50V	
C 102	QFV71HJ-103	TF CAPACITOR	.010MF 5% 50V	
C 103	QFV71HJ-103	TF CAPACITOR	1.0MF 20% 50V	
C 104	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C 105	NCI21CH-101AY	C CAPACITOR	100PF +50:-10% 16V	
C 201	NCB21HK-471AY	C CAPACITOR	470PF 10% 50V	
C 202	QFV71HJ-103	TF CAPACITOR	.010MF 5% 50V	
C 203	QFV71HJ-103	TF CAPACITOR	1.0MF 20% 50V	
C 204	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C 205	NCI21CH-101AY	C CAPACITOR	100PF +50:-10% 16V	
C 501	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 502	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
C 503	QFV41CM-106	E CAPACITOR	10MF 20% 16V	
C 901	QFV41CM-226	E CAPACITOR	22MF 20% 16V	
C 902	NCB21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C 903	QFV41HM-474	E CAPACITOR	.47MF 20% 50V	
C 904	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C 905	NCB21HK-104	C CAPACITOR	.10MF 10% 25V	
C 906	QFV41CM-226	E CAPACITOR	22MF 20% 16V	
CJ501	QGB1214K1-18S	CONNECTOR		
CJ503	QGB1214K1-10S	CONNECTOR		
CP502	VNC0075-R07	7P PLUG ASSY		
D 501	DSK10C-E	DIODE		
D 502	MA3036(L)X	ZENER DIODE		
D 503	MA3075(CM)X	ZENER DIODE		
IC501	LB1641	IC		
IC501	CXA2510AQ	IC		
Q 501	2SB1322(RS)	TRANSISTOR		
Q 502	DT114EKA-X	TRANSISTOR		
Q 503	DT114EKA-X	TRANSISTOR		
R 101	NPSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 102	NPSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R 103	NPSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 104	NPSA02J-304NY	MG RESISTOR	300K 5% 1/10W	
R 105	NPSA02J-181NY	MG RESISTOR	180 5% 1/10W	
R 108	NPSA02J-181NY	MG RESISTOR	5% 1/8W	
R 201	NPSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 202	NPSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R 203	NPSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R 204	NPSA02J-304NY	MG RESISTOR	300K 5% 1/10W	
R 205	NPSA02J-181NY	MG RESISTOR	180 5% 1/10W	
R 208	NPSA02J-181NY	MG RESISTOR	5% 1/10W	
R 501	NPSA02J-473NY	MG RESISTOR	47K 5% 1/8W	
R 502	NPSA02J-332NY	MG RESISTOR	3.3K 5% 1/8W	
R 503	NPSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 504	QRT036J-8R2	OMF RESISTOR	8.2 5% 1/3W	
R 505	NPSA02J-330NY	MG RESISTOR	33.5% 1/8W	
R 506	NPSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 901	NPSA02J-101NY	MG RESISTOR	100 5% 1/8W	
R 902	NPSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 903	NPSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 904	NPSA02J-125NY	MG RESISTOR	1.2M 5% 1/10W	
R 905	NPSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R 906	NPSA02J-103NY	MG RESISTOR	10K 5% 1/8W	
R 907	NPSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
VR101	QVPA603-333A	SEMI V RESISTOR		
VR201	QVPA603-333A	SEMI V RESISTOR		

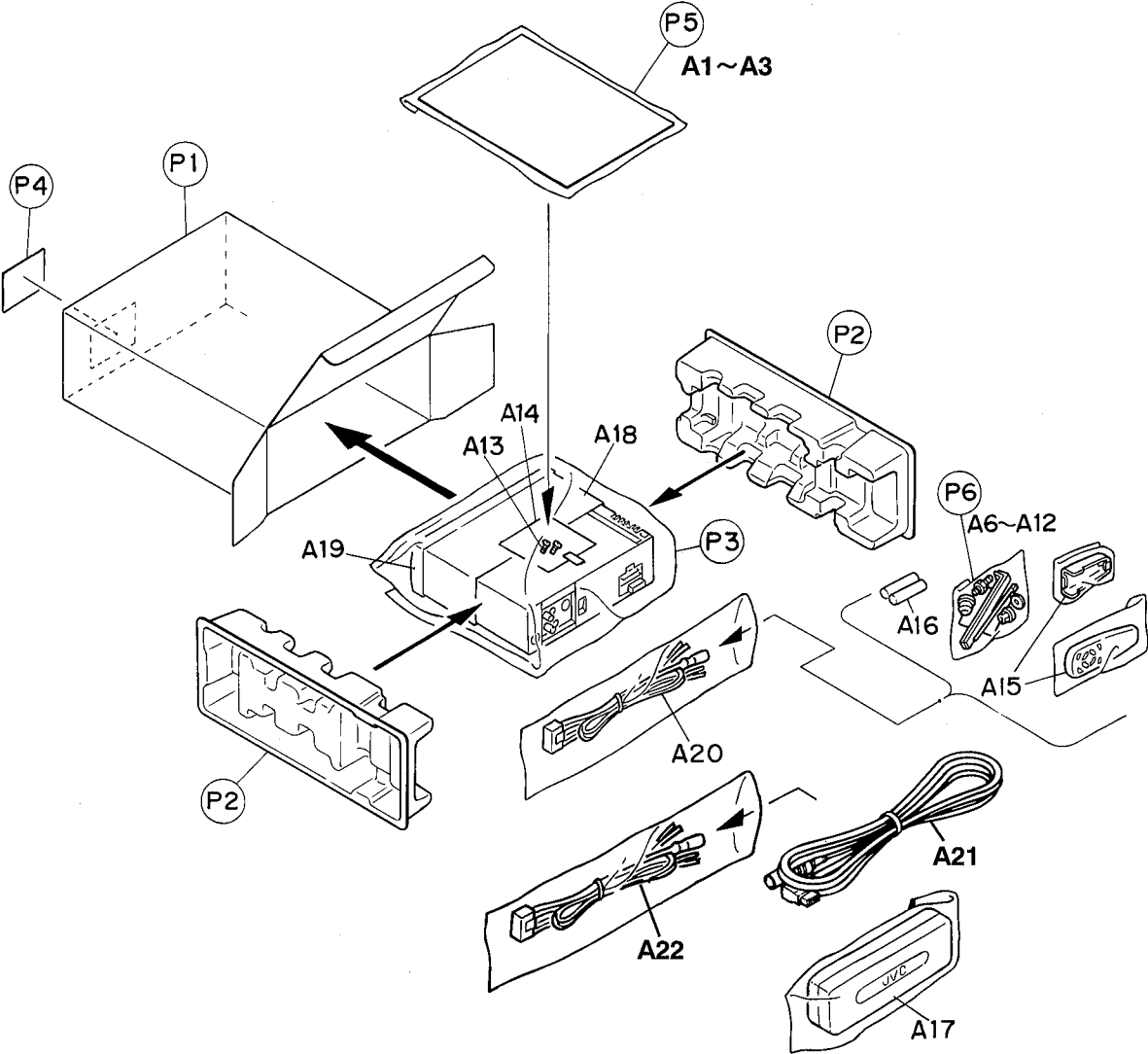
BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 613	NPSA02J-821NY	MG RESISTOR	820 5% 1/10W	
R 614	NPSA02J-561NY	MG RESISTOR	560 5% 1/10W	
R 615	NPSA02J-471NY	MG RESISTOR	470 5% 1/10W	
R 616	NPSA02J-391NY	MG RESISTOR	390 5% 1/10W	
R 617	NPSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R 618	NPSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R 619	NPSA02J-151NY	MG RESISTOR	150 5% 1/8W	
R 620	NPSA02J-271NY	MG RESISTOR	270 5% 1/8W	
R 622	NPSA02J-471NY	MG RESISTOR	470 5% 1/8W	
R 623	NPSA02J-471NY	MG RESISTOR	470 5% 1/8W	
R 624	NPSA02J-331NY	MG RESISTOR	330 5% 1/8W	
R 625	NPSA02J-391NY	MG RESISTOR	390 5% 1/8W	
R 626	NPSA02J-471NY	MG RESISTOR	470 5% 1/8W	
R 627	NPSA02J-471NY	MG RESISTOR	470 5% 1/8W	
R 628	NPSA02J-681NY	MG RESISTOR	680 5% 1/8W	
R 629	NPSA02J-681NY	MG RESISTOR	680 5% 1/8W	
R 630	NPSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R 631	NPSA02J-681NY	MG RESISTOR	680 5% 1/8W	
R 632	NPSA02J-681NY	MG RESISTOR	680 5% 1/8W	
R 633	NPSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R 634	NPSA02J-681NY	MG RESISTOR	680 5% 1/8W	
R 635	NPSA02J-681NY	MG RESISTOR	680 5% 1/8W	
R 636	NPSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R 638	NPSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 639	NPSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 640	NPSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 641	NPSA02J-184NY	MG RESISTOR	180K 5% 1/10W	
R 642	NPSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
R 643	NPSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 644	NPSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 645	NPSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 646	NPSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R 651	NPSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 652	NPSA02J-470NYM	MG RESISTOR	47 5% 1/10W	
S 601	QS04H11-V09Y	TACT SWITCH		
S 602	QS04H11-V09Y	TACT SWITCH		
S 603	QS04H11-V09Y	TACT SWITCH		
S 604	QS04H11-V09Y	TACT SWITCH		
S 605	QS04H11-V09Y	TACT SWITCH		
S 606	QS04H11-V09Y	TACT SWITCH		
S 607	QS04H11-V09Y	TACT SWITCH		
S 608	QS04H11-V09Y	TACT SWITCH		
S 609	QS04H11-V09Y	TACT SWITCH		
S 610	QS04H11-V09Y	TACT SWITCH		
S 611	QS04H11-V09Y	TACT SWITCH		
S 612	QS04H11-V09Y	TACT SWITCH		
S 613	QS04H11-V09Y	TACT SWITCH		
S 614	QS04H11-V09Y	TACT SWITCH		
S 615	QS04H11-V09Y	TACT SWITCH		
S 616	QS04H11-V09Y	TACT SWITCH		
S 617	QS04H11-V09Y	TACT SWITCH		
S 618	QS04H11-V09Y	TACT SWITCH		
S 619	QS04H11-V09Y	TACT SWITCH		
S 620	QS04H11-V09Y	TACT SWITCH		
S 621	QS04H11-V09Y	TACT SWITCH		

Packing Materials and Accessories List

Block No. M 3 M M

Block No. M 4 M M



■ Packing Parts List

BLOCK NO. M3MM

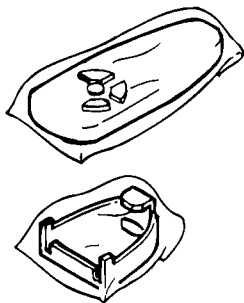
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPC3765-S005	CARTON	SET	1		
	P 2	VPH1712-001	PAPER CUSHION		2		
	P 3	VPE3005-066	POLY BAG		1		
	P 4	-----	CARTON LABEL		1		
	P 5	QPA01702505P	POLY BAG		1		
	P 6	QPA00801205	POLY BAG		1		

■ Accessories Parts List

BLOCK NO. M4MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN3765-181S	INSTRUCTIONS		1		
	A 2	VNN3765-T182S	INSTALL.MANUAL		1		
	A 3	VNC2400-171	CAUTION SHEET		1		
	A 6	VKZ4027-002	PLUG NUT		1		
	A 7	VKH4871-001	MOUNT BOLT		1		
	A 8	VKZ4328-001	LOCK NUT		1		
	A 9	WNS5000Z	WASHER		1		
	A 10	FSKL4010-002	HOOK		2		
	A 11	QHX5080-001	WIRE CLAMP		1		
	A 12	VYTT682-001	DOUBLE FACE		1		
	A 13	VKZ4777-001	MINI SCREW		2		
	A 14	VND5114-001	SHEET		1		
	A 15	VGR0047-102	REMOCON UNIT		1		
	A 16	RO3UPTT-2STS	BATTERY		1		
	A 17	FSJB3001-00A	HARD CASE		1		
	A 18	FSKM2004-001	MOUNTING SLEEVE		1		
	A 19	FSJD2019-002	TRIM PLATE		1		
	A 20	QAM0012-002	16P CORD ASS'Y		1		
	A 21	QAM0076-002	DIN CABLE		1		
	A 22	VMC0014-143	4P CORD ASSY		1		
	KIT 1	KSRT626J-SCREW1	SCREW PARTS KIT	A6-A12	1		
	KIT 2	KSRT626J-SCREW2	SCREW PARTS KIT	A13,A14	1		

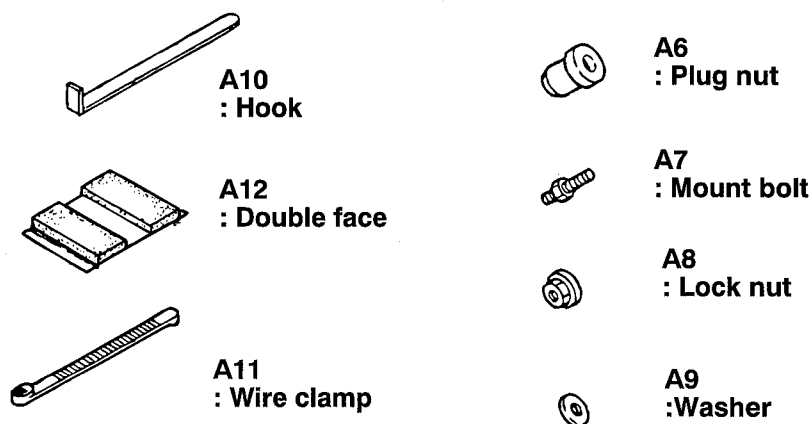
A15
: Remote control unit



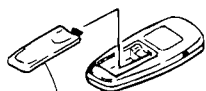
A16 : Battery



SCREW KIT 1

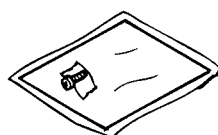


SERVICE PARTS



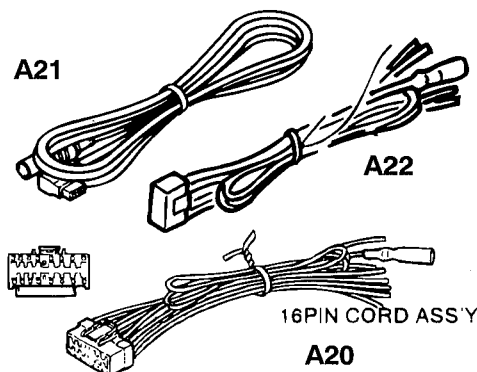
Battery cover
HTR0021-72PW

SCREW KIT 2



A13
: Screw

A14
: Sheet



16PIN CORD ASS'Y

A20



JVC

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